

Measurement Report

Company

Astra Industries Sal

Luminaire Measurement

Asr 1x4W

Measurement Code

1006A/CL673/11-02I-G1

*Davide Liemetti*

Approved by DLAB

Carati Alessandro

Approved by Laboratory Technician

Report Date: 29/03/11

Report Attachments	▶ Photometric Measurement Report	☒
	o Intensity Matrix [cd/klm]	☒
	o Polar Diagram	☒
	o Cartesian Diagram	☐
	o Standard Photometric File Formats	☐
	Eulumdat	☐
	IESNA	☒
	OXL OxyTech	☐
	▶ Colorimetric Measurement Report	☐
	▶ Emergency Test Report	☐
	▶ Laboratory Parasite Light Evaluation (Background Light Noise Definition)	☐
	▶ Light Pollution Laws Conformity Declaration	☐
	▶ Luminaires Assembly Instructions	☐

Photometric Measurement Report

Measurement Code	1006A/CL673/11-02I-G1
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Laboratory Main Manager (DLAB)	Mr. Danilo Giannetti
Laboratory Manager	Mr. Alessandro Casati

Manufacturer Data

Manufacturer	Astra Industries SAL
OxyTech Manufacturer Code	CL673
Address	Dora, St Joseph Road – 80220 - Beirut
Contact Person	Mr. Tony Araman

Tested Luminaire Data

Type	LED Luminaire
Model	Asr 1x4W
Description	Asr 1x4W
Dimension [mm]	95-95-8
Dimension of Luminous Area [mm]	95-95-8
Led Type and Commercial Trademark	Bridgelux – Indium Gallium
Ballast Type and Trademark	Ast LC6-500IF
Heat Sink Type and Trademark	Radiateur Double Alfa HS
Ref. Lamp/ Ref. Ballast	1006B/CL673/11-02L

Measurement Data

Measurement Data	28-03-11
Measurement Type	C- γ Asymmetrical
Reference Standard	UNI EN 11356 del 2010 - UNI EN 13032-1 del 2005
Lamp Stabilization Delay	45 min.
Number of Luminaires Tested	1

Measurement Uncertainty

Source Instability	$\leq 1\%$
Efficiency Calculation Uncertainty (LOR)	2.5%
Luminous Intensity Normalised Values	2.5%
Angular Precision in C and γ	$\pm 0.05^\circ$

Instruments Data

Goniophotometer	Luminaire Rotating System sample as per EN 13032 and CIE121 Standard-Model T2 Oxytech – ref. Oxy G1. Measurement Distance: 9.11 m
Voltage stabilizers	Electro - test model TPS/M 6000
Multimeter	Kinetiq Ppa5530
Luxmeter	C&G

Measurement of Electrical Parameters

Source Voltage	230 V $\pm 0.2\%$
Harmonic Distortion	$< 0,5\%$
Source Frequency	50 Hz $\pm 0.1\%$

Environmental Conditions

Laboratory Temperature [°C]	25°C ± 1°C
Relative Humidity	60%
Air Movement	< 0,2 m/s

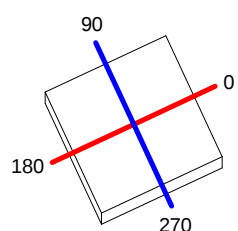
Measurement Notes

- The data displayed on this report are those obtained as per the test described above
- This report concerns only the tested luminaire
- The information contained in the present report/this report is not to be extended in any way to any other sample luminaires different from the one used in this study
- The Measurement Code is shown on the luminaire shield and on the reflector of the luminaire and cannot be deleted

Luminaire		Measur.			Lamp	
Code	ASR 1x4W	Code	CL673/11-02L		Code	1006B/CL673/11-02L
Name	ASR 1x4W	Name	ASR 1x4W		Number	1
Line	Astra Industries 2011	Date	28-03-2011		Position	
Efficiency	100.00%	Coordinate system	C-G		Total Flux	266.25 lm
Maximum value	395.23 cd/klm	Position	C=130.00 G=2.00		Asymmetrical	
Flush Rectangular Rectangular Luminous Area	Length Length	95 mm 95 mm	Width Width	95 mm 95 mm	Height Height	8 mm 8 mm
Horizontal Luminous Area	0.009025 m2		Emitting area on Plane 180°		0.000760 m2	
Emitting area on Plane 0°	0.000760 m2		Emitting area on Plane 270°		0.000760 m2	
Emitting area on Plane 90°	0.000760 m2		Glare area at 76°		0.002921 m2	
Symmetry Type	Asymmetrical		Maximum Gamma Angle		180	
Measurement Distance	9.11		Measurement Flux		266.25 lm	
Operator	AC		Source Voltage		230.16 V	
Temperature	25.00 °C		Source Current		0.06 A	
Humidity	60.00 %		Photocell		Czibula Grundmann	
Notes	Potenza 5.88350FP 0.45999					

Luminaire Lamps						
Line	Code	Name	Fluxlm	Pow.W	Qta	
LED 2011	1006B/CL673/11-02L	1006B/CL673/11-02L	266.25	6.00	1	
C.I.E.	52 82 96 98 100					
F UTE	0.98 D + 0.02 T					
		D DIN 5040	A41			
		B NBN	BZ 4			

95mm x 95mm



C Halfplanes

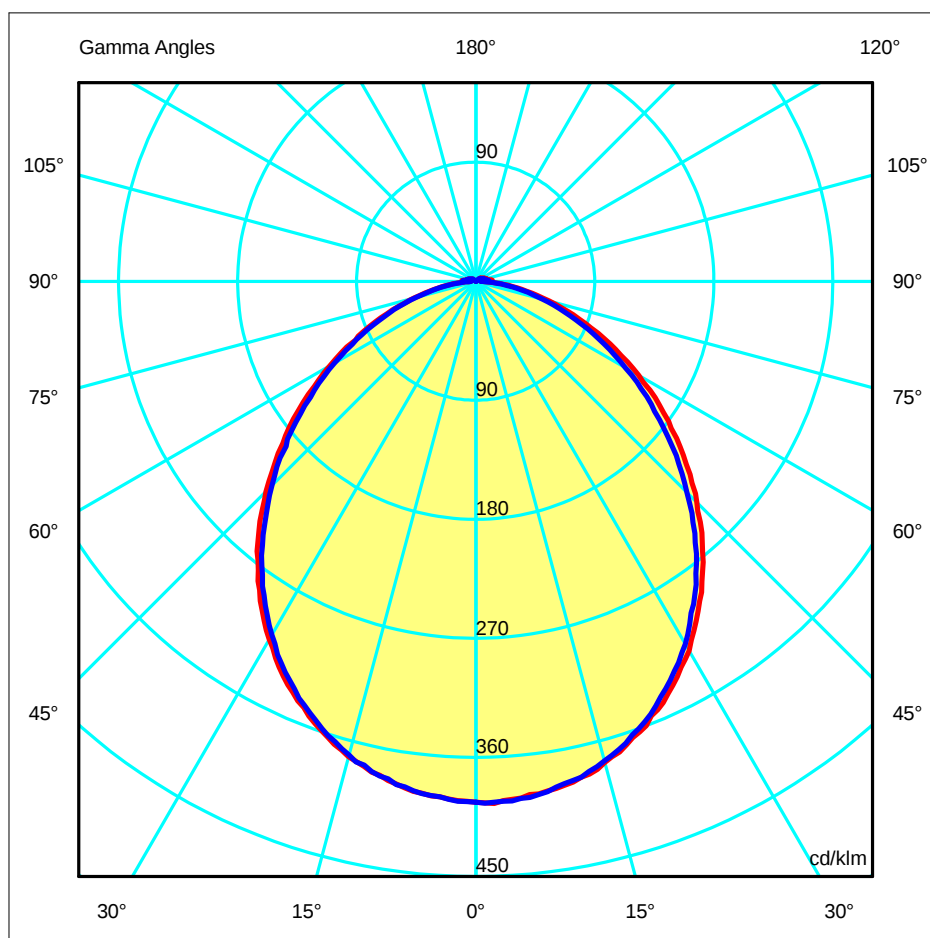
180.0 — 0.0

270.0 — 90.0

ULOR 2.42 %

DLOR 97.58 %

RN 2.42 %



Luminaire		Measur.								Lamp			
Code	ASR 1x4W	Code CL673/11-02L								Code	1006B/CL673/11-02L		
Name	ASR 1x4W	Name ASR 1x4W								Number	1		
Line	Astra Industries 2011	Date 28-03-2011								Position			
Efficiency	100.00%				Coordinate system		C-G		Total Flux		266.25 lm		
Luminous Intensity Table cd/klm													
Table 1/9													
	C 0.00	C 10.00	C 20.00	C 30.00	C 40.00	C 50.00	C 60.00	C 70.00	C 80.00	C 90.00	C 100.00	C 110.00	C 120.00
G 0.0	393.67	393.67	393.67	393.67	393.67	393.67	393.67	393.67	393.67	393.67	393.67	393.67	393.67
G 1.0	394.36	393.52	394.89	393.98	394.00	393.36	392.74	393.50	394.92	394.56	393.05	393.67	393.36
G 2.0	394.98	393.67	394.19	393.98	394.29	393.77	393.94	394.61	393.71	393.98	393.60	393.39	393.05
G 3.0	393.11	393.36	393.88	393.67	393.05	393.05	392.65	393.36	394.30	393.70	393.36	393.67	392.93
G 4.0	392.49	394.29	392.93	393.98	393.32	393.05	392.43	393.20	393.36	393.74	393.19	392.26	392.74
G 5.0	392.18	392.52	392.63	392.62	392.51	392.43	392.36	392.74	392.73	392.28	392.90	391.80	392.42
G 6.0	390.00	391.80	392.01	392.08	391.18	391.18	390.56	391.88	392.32	392.31	390.55	391.70	391.18
G 7.0	390.31	390.22	390.76	391.49	389.91	390.66	389.94	391.49	390.55	390.86	389.10	389.63	389.20
G 8.0	389.03	389.10	390.14	390.24	389.14	389.00	388.82	389.30	390.14	389.52	388.37	389.46	388.68
G 9.0	388.13	388.05	387.65	388.68	388.69	387.93	386.82	388.37	388.40	387.13	386.81	387.02	385.26
G 10.0	386.80	386.55	387.71	388.00	386.83	386.51	386.82	386.50	386.03	385.62	384.73	385.26	384.77
G 11.0	385.64	384.35	384.74	385.57	385.26	384.02	383.98	384.94	384.93	384.31	382.76	383.43	383.29
G 12.0	383.34	383.98	383.28	384.01	383.39	383.09	382.47	383.70	383.37	383.38	382.24	382.14	381.51
G 13.0	382.32	381.22	380.81	382.06	381.40	381.53	380.59	381.20	381.19	380.26	379.09	379.21	378.40
G 14.0	380.08	378.42	379.54	379.68	378.72	379.04	378.11	378.71	378.37	378.07	377.15	378.40	377.46
G 15.0	376.61	376.87	376.74	377.36	376.69	377.80	376.21	376.84	376.09	375.28	373.72	374.93	374.35
G 16.0	373.81	374.20	374.30	374.97	374.36	373.16	373.55	374.03	373.07	372.77	371.61	373.41	372.28
G 17.0	371.95	371.76	372.07	371.92	371.17	370.06	370.12	371.88	369.63	370.10	368.74	369.88	369.41
G 18.0	368.52	368.15	368.93	369.98	367.82	368.15	367.52	367.50	368.28	367.16	365.31	366.55	365.62
G 19.0	364.79	365.58	366.38	366.55	365.53	365.16	363.80	365.08	364.64	362.79	362.50	362.66	361.73
G 20.0	362.37	362.86	362.72	363.38	362.17	362.10	360.90	360.34	360.53	360.01	359.23	359.59	359.70
G 21.0	359.81	359.75	359.79	359.95	358.40	358.51	357.26	358.14	356.65	356.55	355.33	355.64	355.64
G 22.0	354.20	355.08	355.55	356.31	355.17	354.77	353.41	352.74	352.15	353.00	351.74	352.33	352.00
G 23.0	351.71	352.28	351.50	352.84	350.88	351.74	349.48	349.10	348.17	348.54	347.85	348.16	347.54
G 24.0	348.53	348.55	349.00	348.80	346.02	346.06	345.53	345.67	344.52	343.80	342.24	343.79	343.80
G 25.0	343.84	344.50	344.64	344.73	343.22	343.57	341.28	341.31	340.29	339.71	338.15	339.75	339.75
G 26.0	339.73	339.83	340.66	340.91	338.86	338.23	336.41	337.27	336.85	335.43	334.14	334.97	334.33
G 27.0	335.53	336.10	335.86	336.01	335.71	334.54	332.51	333.80	330.92	330.66	329.06	331.00	329.77
G 28.0	330.38	331.50	331.05	332.27	329.56	330.69	327.38	329.15	326.67	326.60	324.06	325.99	325.07
G 29.0	326.50	327.27	326.68	327.28	326.26	324.90	322.28	322.92	321.24	321.30	319.75	321.02	321.01
G 30.0	322.46	322.41	322.48	323.23	320.11	319.81	318.67	317.93	316.08	316.67	314.34	315.44	316.37
G 31.0	316.23	317.74	317.22	317.53	315.50	314.63	312.96	312.54	310.89	311.13	307.86	310.66	310.39
G 32.0	311.29	312.12	311.71	313.25	310.45	309.79	308.75	307.64	305.91	305.20	303.59	305.34	305.02
G 33.0	306.07	307.23	306.72	307.85	305.73	304.83	303.18	302.75	299.61	298.90	299.91	300.10	299.66
G 34.0	300.64	301.87	300.96	303.11	300.14	300.08	296.72	296.45	294.87	294.22	293.61	294.77	294.60
G 35.0	294.89	296.48	296.56	297.03	294.07	294.25	291.53	289.87	288.85	288.80	287.89	288.59	288.51
G 36.0	290.38	292.18	291.33	291.36	289.09	287.61	285.69	283.80	283.07	283.28	280.78	283.49	282.12
G 37.0	284.04	285.73	285.21	286.88	283.95	283.38	279.94	279.65	277.12	276.29	274.95	276.97	277.47
G 38.0	278.26	280.13	280.06	280.80	278.32	276.43	273.95	272.30	270.21	270.91	268.96	271.00	270.18
G 39.0	273.06	274.70	274.56	275.32	272.77	271.21	268.22	266.69	264.55	265.03	263.41	264.05	264.97
G 40.0	266.58	268.29	267.89	268.46	266.85	265.36	261.50	260.38	257.63	257.95	256.55	257.99	258.21
G 41.0	260.92	263.54	262.10	262.51	260.20	260.35	256.06	254.62	251.31	252.52	249.85	252.47	253.45
G 42.0	255.55	256.71	256.66	256.32	254.70	253.82	250.19	248.54	244.65	245.25	243.41	245.86	246.61
G 43.0	248.75	250.82	250.18	250.11	247.72	247.62	242.86	242.28	238.59	239.52	237.14	239.41	239.69
G 44.0	241.59	245.44	244.47	245.58	242.00	241.04	236.61	235.92	232.77	232.41	231.17	233.29	233.76
G 45.0	236.21	239.50	237.98	239.64	235.74	234.40	231.35	229.81	225.40	225.60	224.36	228.38	226.79
G 46.0	230.89	233.49	232.11	232.09	229.74	229.13	224.76	223.22	219.47	219.61	218.06	220.52	219.69
G 47.0	223.48	227.21	225.64	226.63	224.54	222.67	217.70	217.69	213.72	213.26	211.55	213.90	213.96
G 48.0	218.13	220.83	219.38	220.68	217.27	216.63	212.64	210.67	206.36	206.57	206.05	206.67	207.81
G 49.0	210.69	214.50	213.08	214.84	210.77	211.00	205.61	204.01	199.44	200.74	198.83	200.58	200.98
G 50.0	204.67	208.07	206.82	208.84	204.80	203.40	199.19	197.47	193.69	193.91	191.91	194.53	194.49
G 51.0	198.81	201.51	200.66	201.39	198.47	197.42	192.70	191.41	186.89	187.10	186.18	187.32	188.17
G 52.0	192.70	194.89	193.42	195.80	191.82	190.99	186.78	185.06	180.98	180.51	178.45	180.98	180.35
G 53.0	184.82	187.88	187.71	189.58	185.60	184.51	179.94	178.41	175.10	174.10	172.46	175.07	174.08
G 54.0	180.06	182.43	181.36	182.29	179.05	177.98	173.65	171.45	167.41	167.13	166.06	167.46	166.35
G 55.0	173.12	175.17	175.53	176.07	174.14	172.38	167.33	165.84	161.43	162.01	159.40	161.97	162.29
G 56.0	167.32	169.71	168.81	170.21	167.37	166.81	160.62	159.88	155.60	155.98	153.50	156.39	154.65
G 57.0	161.57	163.41	162.54	164.13	160.86	160.35	155.12	153.17	149.23	149.12	147.31	148.97	149.54
G 58.0	155.28	157.81	156.25	157.73	154.22	153.72	148.13	147.45	141.85	143.66	140.95	143.67	142.69
G 59.0	147.57	150.56	148.96	151.01	147.28	148.00	142.62	141.30	136.87	137.37	133.65	138.15	136.01
G 60.0	142.21	144.10	142.89	144.60	141.99	142.36	136.95	135.12	129.85	130.64	128.36	131.23	130.07
G 61.0	136.21	139.04	137.30	139.18	135.17	134.70	130.33	129.20	124.79	124.80	122.71	125.83	124.87
G 62.0	129.98	133.30	131.26	132.75	129.28	129.58	124.33	123.06	117.98	118.72	116.09	120.09	117.88
G 63.0	123.16	126.35	125.33	127.21</									

Luminaire		Measur.						Lamp					
Code	ASR 1x4W	Code	CL673/11-02L				Code	1006B/CL673/11-02L					
Name	ASR 1x4W	Name	ASR 1x4W				Number	1					
Line	Astra Industries 2011	Date	28-03-2011				Position						
Efficiency	100.00%				Coordinate system		C-G		Total Flux		266.25 lm		
Luminous Intensity Table cd/klm							Table 2/9						
	C 130.00	C 140.00	C 150.00	C 160.00	C 170.00	C 180.00	C 190.00	C 200.00	C 210.00	C 220.00	C 230.00	C 240.00	C 250.00
G 0.0	393.67	393.67	393.67	393.67	393.67	393.67	393.67	393.67	393.67	393.67	393.67	393.67	393.67
G 1.0	395.07	393.36	393.98	393.34	391.49	393.20	393.67	393.74	393.98	393.05	393.01	392.12	393.67
G 2.0	395.23	393.72	393.50	393.34	392.66	392.89	393.05	393.88	393.05	392.74	392.15	392.12	392.42
G 3.0	393.79	392.42	392.74	392.40	392.42	391.89	392.12	393.11	392.11	392.74	391.89	392.79	392.11
G 4.0	393.65	392.11	391.80	391.15	390.81	390.71	390.25	391.70	391.80	392.43	391.05	390.87	391.18
G 5.0	393.43	391.49	391.49	390.22	390.30	390.42	390.87	390.76	390.61	389.27	389.63	389.94	390.21
G 6.0	392.31	390.72	390.55	389.91	389.93	389.15	388.69	389.52	389.31	388.69	388.38	387.87	388.92
G 7.0	390.62	389.62	389.30	388.88	388.10	388.49	387.23	387.96	387.38	386.31	387.14	387.76	386.92
G 8.0	388.92	388.18	387.81	386.57	386.81	386.65	385.89	386.79	385.57	386.12	385.04	385.63	385.88
G 9.0	388.89	387.03	386.86	385.54	385.26	384.60	384.03	384.22	384.08	385.88	383.71	384.02	384.29
G 10.0	385.96	384.94	384.31	383.99	383.70	383.12	383.40	383.43	383.07	382.77	380.91	381.53	381.83
G 11.0	384.60	382.78	382.79	381.80	382.14	380.48	380.59	381.11	380.10	381.15	378.73	379.95	380.00
G 12.0	381.79	382.03	380.88	380.41	379.95	379.26	379.83	378.92	378.80	378.43	377.64	377.45	377.77
G 13.0	380.54	377.97	379.22	377.75	377.36	376.35	375.86	376.12	375.90	375.92	374.87	374.84	374.97
G 14.0	378.11	376.39	374.64	375.11	374.49	374.17	373.93	374.56	372.79	373.30	372.82	371.37	371.85
G 15.0	375.99	374.26	373.39	372.52	372.09	371.98	370.93	370.72	370.35	370.62	369.50	369.62	369.36
G 16.0	373.66	371.52	369.96	369.96	369.36	368.65	368.02	368.33	367.48	366.06	366.91	366.59	366.55
G 17.0	370.32	368.72	368.31	367.47	367.49	366.07	365.04	364.79	364.06	364.08	363.17	363.75	363.44
G 18.0	367.48	365.28	365.68	364.07	364.06	362.34	361.53	361.16	361.16	360.37	359.13	358.82	360.32
G 19.0	363.78	362.48	362.48	361.55	360.32	359.08	358.51	358.49	357.62	357.56	356.64	356.64	356.66
G 20.0	360.21	358.89	358.66	357.81	357.51	355.70	355.39	355.24	353.62	355.05	352.35	351.35	353.46
G 21.0	357.09	355.61	355.61	353.75	354.09	352.01	352.09	349.82	349.72	349.48	348.39	349.17	348.09
G 22.0	353.02	350.07	352.49	349.78	350.18	347.38	347.61	347.76	346.15	346.23	343.88	344.12	344.62
G 23.0	348.90	347.19	348.79	346.27	346.16	344.52	343.54	343.66	341.85	341.16	339.13	339.52	340.89
G 24.0	345.17	343.45	344.06	342.85	340.02	340.15	339.52	338.74	337.57	336.68	334.85	335.89	335.70
G 25.0	340.83	340.02	338.77	338.38	337.74	336.39	335.06	334.05	333.18	332.11	331.12	331.74	331.93
G 26.0	336.63	335.57	334.29	334.74	333.83	332.04	332.05	331.91	329.20	327.64	326.56	326.24	326.09
G 27.0	331.30	331.00	330.51	329.40	329.34	327.37	325.13	324.80	323.45	322.42	320.63	322.65	322.60
G 28.0	327.49	326.29	325.67	323.32	324.89	322.68	322.20	320.71	319.18	318.56	317.12	316.67	316.06
G 29.0	322.07	320.99	322.13	320.72	320.11	316.75	317.16	316.29	314.50	313.63	312.87	311.82	312.01
G 30.0	318.52	316.62	317.56	315.09	314.81	312.44	311.25	310.71	309.19	307.87	306.47	306.22	306.93
G 31.0	312.85	310.82	311.15	309.54	309.95	307.70	306.08	307.11	304.18	304.73	300.50	301.25	301.28
G 32.0	308.09	306.71	306.67	305.88	304.80	302.21	301.77	300.89	299.03	297.79	294.99	295.60	295.44
G 33.0	301.65	300.19	300.93	299.96	299.76	296.65	295.83	295.68	292.84	292.25	290.04	290.13	289.56
G 34.0	296.93	295.64	295.75	295.22	293.09	291.47	290.75	289.46	287.18	286.94	284.53	284.19	283.68
G 35.0	292.80	289.02	290.54	288.49	289.04	284.84	284.81	284.10	281.06	280.59	278.08	279.21	277.91
G 36.0	285.28	284.95	284.78	283.05	282.89	280.17	279.02	278.52	275.37	275.07	272.21	272.79	272.08
G 37.0	279.11	278.66	279.66	276.89	277.33	273.24	274.12	272.48	268.81	269.35	264.98	266.67	265.81
G 38.0	273.47	272.56	273.28	271.36	270.95	267.68	266.76	266.43	263.66	263.73	260.20	260.56	259.92
G 39.0	267.94	266.76	266.49	264.86	265.45	262.71	260.68	261.83	258.06	257.09	254.08	253.91	253.10
G 40.0	261.51	260.61	261.56	258.84	259.11	256.36	254.97	254.56	252.32	250.50	248.42	247.88	247.17
G 41.0	255.81	253.80	254.14	253.04	252.10	249.83	249.26	249.08	245.52	244.99	240.28	242.73	240.17
G 42.0	249.36	247.99	249.77	247.00	246.71	243.85	242.96	243.03	238.74	237.64	236.50	235.31	234.08
G 43.0	243.30	241.15	242.85	240.37	240.82	236.71	236.54	236.14	233.44	231.82	229.55	228.90	227.47
G 44.0	236.24	235.33	237.73	234.13	234.30	230.21	229.54	229.38	227.25	226.67	222.67	223.01	221.52
G 45.0	230.64	228.27	230.39	228.07	227.57	224.47	223.35	224.13	220.43	219.57	216.73	215.66	214.61
G 46.0	223.82	222.53	223.79	220.95	220.64	217.63	217.85	216.53	213.82	213.12	209.77	209.84	208.88
G 47.0	217.18	215.14	215.73	214.83	214.82	210.28	210.50	210.34	207.31	207.45	204.34	203.43	202.17
G 48.0	210.50	209.57	209.18	207.80	208.06	203.97	204.18	203.71	201.00	200.66	197.43	197.93	195.09
G 49.0	204.47	201.85	204.04	201.25	199.59	198.13	197.71	198.32	194.44	192.94	190.73	189.85	189.23
G 50.0	197.65	195.97	196.95	194.60	195.42	190.30	191.08	190.99	187.84	187.60	184.05	183.82	182.78
G 51.0	190.50	189.54	191.12	188.16	187.45	185.31	184.35	184.35	182.04	181.15	178.23	177.71	176.11
G 52.0	184.59	182.60	183.79	181.36	180.95	178.78	178.13	178.71	174.93	174.65	171.47	171.20	169.58
G 53.0	178.40	176.03	177.97	174.76	175.39	172.63	171.35	171.98	168.78	168.12	165.84	164.41	162.86
G 54.0	171.35	169.11	171.12	168.74	168.36	165.68	164.84	165.41	163.23	161.59	158.50	158.46	157.13
G 55.0	163.74	163.02	163.73	161.89	161.73	159.46	158.84	158.91	157.50	154.99	152.96	152.54	150.21
G 56.0	157.53	156.35	157.88	154.42	155.47	152.96	151.84	152.94	149.83	149.74	146.62	145.74	144.56
G 57.0	152.77	150.00	151.70	148.49	148.87	145.67	146.02	147.32	144.25	143.50	140.32	140.50	138.57
G 58.0	145.41	143.31	145.14	142.09	142.94	139.75	138.89	140.15	137.59	137.13	133.47	134.05	132.22
G 59.0	139.23	137.60	139.26	135.91	136.66	133.60	133.14	134.56	131.07	131.03	128.59	128.65	126.67
G 60.0	133.16	130.93	132.14	129.87	130.78	127.23	127.44	127.94	125.02	124.98	122.35	121.98	120.80
G 61.0	127.49	124.78	127.13	123.00	124.32	121.39	121.28	121.96	119.82	119.11	116.84	116.06	113.43
G 62.0	121.47	119.20	120.40	118.03	118.36	115.27	115.41	115.74	114.30	113.64	111.25	110.61	109.28

Luminaire		Measur.						Lamp		
Code	ASR 1x4W	Code CL673/11-02L						Code	1006B/CL673/11-02L	
Name	ASR 1x4W	Name ASR 1x4W						Number	1	
Line	Astra Industries 2011	Date 28-03-2011						Position		
Efficiency	100.00%	Coordinate system C-G						Total Flux	266.25 lm	
Luminous Intensity Table cd/klm Table 3/9										
	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00
G 0.0	393.67	393.67	393.67	393.67	393.67	393.67	393.67	393.67	393.67	393.67
G 1.0	394.30	393.36	393.87	393.67	393.36	393.36	393.78	393.44	393.65	394.80
G 2.0	394.01	393.20	393.09	392.74	393.25	394.44	393.60	393.36	393.54	393.91
G 3.0	393.36	392.10	391.93	392.39	392.74	394.03	393.05	392.74	392.71	393.36
G 4.0	391.25	390.55	391.59	391.80	391.49	393.80	392.27	392.32	392.71	392.91
G 5.0	391.49	390.24	390.09	390.38	390.55	392.56	391.49	392.11	393.16	391.54
G 6.0	389.96	389.30	389.31	389.82	390.24	391.80	391.01	390.86	390.84	391.71
G 7.0	388.05	388.06	388.06	388.04	388.37	389.84	389.93	390.22	389.72	388.68
G 8.0	387.12	385.89	386.50	387.44	386.81	388.67	387.74	388.62	388.37	389.27
G 9.0	384.62	385.32	384.94	385.04	385.57	387.34	388.41	386.50	387.29	387.37
G 10.0	383.68	381.82	383.39	383.39	383.70	385.85	385.45	385.87	385.94	384.94
G 11.0	381.65	380.88	381.44	381.07	382.14	383.35	383.70	383.73	384.01	384.28
G 12.0	379.37	378.70	378.31	379.33	380.58	381.16	381.19	381.82	382.74	382.83
G 13.0	376.81	375.37	375.90	377.10	378.09	379.60	380.27	379.92	380.87	380.70
G 14.0	373.68	374.33	373.37	374.06	375.36	377.21	377.20	377.67	378.38	378.40
G 15.0	369.98	370.59	371.42	371.38	372.77	373.97	374.02	374.94	375.57	375.59
G 16.0	367.58	367.47	368.12	368.21	370.03	372.29	372.15	373.08	373.08	372.79
G 17.0	363.39	364.05	365.31	365.93	366.66	368.46	369.40	370.08	370.82	370.92
G 18.0	360.72	361.10	362.39	362.19	363.85	365.77	366.84	367.03	367.90	367.80
G 19.0	357.46	357.49	358.14	359.38	360.70	363.65	363.01	363.69	366.64	365.93
G 20.0	354.34	353.40	355.33	355.96	358.47	359.28	360.29	360.61	361.89	361.88
G 21.0	350.59	349.69	351.72	351.90	354.09	356.85	357.17	357.22	357.81	358.76
G 22.0	346.77	345.72	347.85	347.82	349.70	352.08	353.31	353.74	354.77	355.74
G 23.0	342.62	342.37	343.12	344.45	346.53	348.24	349.38	350.00	351.61	351.59
G 24.0	337.79	337.21	339.75	339.66	342.75	345.20	345.96	346.57	347.64	347.89
G 25.0	333.69	332.84	335.30	335.70	337.25	340.24	342.05	342.51	343.78	343.18
G 26.0	329.05	328.79	331.03	330.71	333.07	335.82	337.47	337.93	339.12	339.00
G 27.0	324.05	324.11	325.41	326.88	329.79	330.93	333.48	334.28	335.23	334.76
G 28.0	318.75	319.50	321.61	321.98	324.79	326.76	328.79	329.10	330.77	331.33
G 29.0	314.16	313.32	317.62	316.37	320.11	321.94	323.60	324.73	326.37	326.60
G 30.0	309.07	308.41	312.32	311.46	315.44	317.38	318.80	319.12	321.03	321.00
G 31.0	303.23	303.36	306.83	306.81	310.85	312.37	314.53	314.84	316.37	316.70
G 32.0	297.90	297.58	299.71	301.69	305.25	307.83	309.42	310.66	312.30	312.01
G 33.0	292.02	292.38	294.55	295.99	299.51	301.40	305.54	304.64	307.00	306.90
G 34.0	286.63	286.16	288.73	291.15	294.40	296.63	298.84	300.05	301.20	301.85
G 35.0	280.25	281.18	283.05	284.67	289.19	292.06	295.07	294.47	295.73	296.15
G 36.0	274.23	274.40	277.97	280.00	283.58	285.13	288.23	289.37	290.23	291.10
G 37.0	268.33	268.89	271.94	272.64	277.60	278.20	282.74	282.90	284.13	284.80
G 38.0	262.56	263.03	265.56	267.93	272.55	273.34	277.60	277.53	278.75	278.93
G 39.0	255.00	256.50	259.14	261.20	265.44	268.34	270.55	271.14	274.06	273.54
G 40.0	248.85	250.27	254.21	255.79	259.38	262.86	265.00	266.24	267.64	267.62
G 41.0	242.89	243.19	247.02	249.17	253.63	256.96	259.31	260.35	261.88	261.10
G 42.0	236.30	236.64	241.02	243.50	247.39	250.18	252.92	253.63	255.67	255.84
G 43.0	230.51	230.40	234.83	236.31	241.75	242.57	247.44	248.43	249.86	249.00
G 44.0	224.17	224.66	228.87	230.52	234.92	236.98	241.22	241.26	243.48	242.73
G 45.0	217.38	217.77	221.80	223.79	228.59	230.77	235.33	234.83	237.53	236.77
G 46.0	210.98	211.62	216.04	217.81	222.78	224.63	228.06	229.29	231.41	230.69
G 47.0	204.36	205.62	209.02	211.77	216.15	218.10	222.56	223.07	224.74	223.80
G 48.0	197.85	199.27	202.32	204.56	209.55	212.31	215.52	216.08	218.87	218.86
G 49.0	190.61	190.02	196.18	198.96	203.94	206.63	209.10	210.50	212.05	212.36
G 50.0	184.99	185.86	189.03	191.87	197.26	199.84	203.89	204.79	205.83	205.95
G 51.0	177.48	179.16	183.44	186.08	190.78	193.82	197.81	196.41	199.13	199.00
G 52.0	171.72	172.88	176.95	180.41	184.61	186.25	190.92	191.63	193.83	192.60
G 53.0	165.27	166.00	169.93	173.42	177.77	180.64	184.48	184.61	186.53	187.16
G 54.0	158.75	159.93	163.97	167.16	172.10	174.32	178.01	178.22	180.56	179.72
G 55.0	152.09	152.66	158.39	160.61	164.57	168.35	171.66	172.21	174.48	173.74
G 56.0	146.03	147.21	151.19	154.73	158.44	162.29	165.11	165.98	167.87	168.22
G 57.0	141.31	141.46	146.04	148.68	153.76	155.69	158.95	159.93	161.34	161.91
G 58.0	134.29	135.57	139.40	142.67	146.91	149.15	152.52	153.16	155.46	155.50
G 59.0	127.84	129.55	133.14	135.53	140.61	142.26	147.55	146.83	148.88	148.37
G 60.0	122.68	123.41	127.21	130.38	135.01	136.89	139.49	140.47	142.04	142.69
G 61.0	117.08	117.04	121.47	124.30	128.88	131.67	134.05	134.34	136.84	136.35
G 62.0	110.29	111.50	116.50	118.29	122.15	125.17	127.88	128.29	130.58	130.76
G 63.0	105.31	104.81	110.61	112.27	116.61	118.48	122.03	122.03	124.54	123.92
G 64.0	99.66	100.68	105.00	106.54	111.33	113.25	115.38	116.02	118.51	117.95
G 65.0	94.56	95.05	99.28	100.82	105.16	107.97	110.76	110.46	112.34	112.83
G 66.0	88.70	89.95	93.80	95.19	99.58	101.83	104.43	104.13	106.92	106.50
G 67.0	83.98	84.20	87.94	89.81	93.52	95.47	98.36	98.47	100.49	100.72
G 68.0	79.22	79.29	82.78	84.55	87.49	90.36	92.80	93.11	95.84	94.61
G 69.0	74.00	73.88	77.56	79.25	83.05	84.02	87.26	87.59	89.62	89.19
G 70.0	68.69	69.55	72.54	74.39	77.14	78.58	81.49	82.51	84.60	84.05
G 71.0	64.85	65.07	68.10	68.23	73.53	73.31	76.64	76.37	78.90	77.73
G 72.0	59.43	59.85	63.04	64.13	67.46	68.32	70.89	70.98	73.50	73.37

Luminaire				Measur.				Lamp					
Code	ASR 1x4W			Code	CL673/11-02I			Code	1006B/CL673/11-02L				
Name	ASR 1x4W			Name	ASR 1x4W			Number	1				
Line	Astra Industries 2011			Date	28-03-2011			Position					
Efficiency	100.00%			Coordinate system	C-G			Total Flux	266.25 lm				
Luminous Intensity Table cd/klm Table 4/9													
	C 0.00	C 10.00	C 20.00	C 30.00	C 40.00	C 50.00	C 60.00	C 70.00	C 80.00	C 90.00	C 100.00	C 110.00	C 120.00
G 73.0	67.66	70.08	67.71	70.73	67.42	67.24	63.07	64.65	60.44	61.65	59.23	61.06	59.37
G 74.0	62.48	65.05	62.11	64.67	61.68	61.70	59.08	59.42	55.80	56.76	54.89	56.62	54.79
G 75.0	57.41	60.10	58.21	59.60	57.04	56.65	53.86	54.10	51.26	52.34	50.12	51.99	50.14
G 76.0	52.15	55.09	53.30	54.67	51.79	52.19	49.62	49.75	47.33	47.96	45.89	47.42	45.25
G 77.0	47.84	50.35	48.52	49.59	47.01	47.17	45.56	45.51	43.01	43.55	41.55	43.43	41.20
G 78.0	43.55	46.24	44.15	45.37	42.23	42.57	40.58	41.03	38.96	40.42	37.96	38.87	37.12
G 79.0	39.22	41.56	39.39	40.90	37.65	37.98	36.35	37.55	34.98	36.14	34.07	35.50	33.54
G 80.0	35.51	37.60	35.42	36.50	33.58	34.19	32.74	33.20	31.31	32.55	30.14	31.51	29.81
G 81.0	31.63	33.11	31.29	32.43	29.08	30.04	28.51	29.94	27.82	28.65	26.97	27.97	26.20
G 82.0	27.93	29.55	27.76	28.67	25.14	26.37	25.20	26.72	24.62	24.83	23.85	24.73	22.99
G 83.0	24.84	25.94	24.54	24.93	21.44	22.17	21.90	23.41	21.96	21.96	20.68	21.90	20.00
G 84.0	20.68	22.90	21.48	22.08	18.08	18.47	19.33	20.54	19.06	19.52	18.03	19.18	17.53
G 85.0	17.89	19.13	18.21	18.66	14.34	15.11	16.57	17.73	15.52	16.20	14.85	16.05	14.77
G 86.0	13.63	15.48	15.38	15.50	11.32	11.86	13.80	14.84	12.60	12.85	11.86	13.58	11.72
G 87.0	10.84	11.90	10.66	12.57	9.19	9.94	10.56	11.58	9.52	9.89	8.94	10.05	9.26
G 88.0	7.22	8.60	7.22	8.90	7.13	7.68	7.87	8.53	7.46	7.56	6.73	7.50	6.80
G 89.0	5.01	5.90	5.36	6.27	5.70	6.03	5.69	6.12	5.22	5.37	4.68	5.51	5.03
G 90.0	3.70	4.23	4.24	4.79	4.52	4.79	4.42	4.50	3.93	3.64	3.75	4.21	4.08
G 91.0	5.76	5.56	6.37	5.45	5.96	5.17	6.12	5.11	5.71	4.24	5.94	4.92	6.05
G 92.0	9.23	8.71	9.20	8.42	8.29	7.35	8.69	7.92	7.85	6.49	7.30	7.75	8.25
G 93.0	11.82	11.30	11.93	11.08	10.12	9.22	10.76	10.05	9.76	7.87	9.05	9.67	10.11
G 94.0	12.57	12.76	12.47	11.71	9.73	9.68	11.00	11.62	10.98	9.77	10.09	10.60	9.52
G 95.0	11.84	12.38	11.47	10.80	8.94	8.84	9.68	10.70	10.29	9.63	9.43	9.64	8.26
G 96.0	10.95	11.32	10.57	9.72	8.40	8.29	8.86	9.62	9.33	9.00	8.66	8.57	7.64
G 97.0	10.21	10.41	9.83	9.09	8.15	8.03	8.37	8.91	8.70	8.42	8.16	8.03	7.27
G 98.0	9.61	9.87	9.28	8.68	8.05	7.90	8.08	8.43	8.36	8.06	7.83	7.66	7.10
G 99.0	9.20	9.42	8.99	8.45	7.89	7.78	7.88	8.19	8.09	7.77	7.67	7.44	6.96
G100.0	8.93	9.12	8.74	8.25	7.78	7.67	7.76	7.99	7.86	7.59	7.50	7.29	6.87
G101.0	8.76	8.94	8.57	8.13	7.71	7.59	7.65	7.81	7.71	7.42	7.35	7.18	6.77
G102.0	8.53	8.73	8.44	8.02	7.61	7.47	7.55	7.67	7.58	7.27	7.19	7.05	6.67
G103.0	8.34	8.52	8.28	7.91	7.49	7.39	7.39	7.51	7.42	7.14	7.06	6.91	6.56
G104.0	8.15	8.26	8.08	7.73	7.33	7.23	7.28	7.38	7.26	6.97	6.91	6.77	6.38
G105.0	7.96	8.16	7.94	7.61	7.22	7.11	7.13	7.22	7.07	6.82	6.76	6.62	6.26
G106.0	7.76	7.96	7.78	7.45	7.11	6.95	6.98	7.06	6.91	6.66	6.62	6.43	6.10
G107.0	7.58	7.75	7.59	7.31	6.90	6.84	6.81	6.87	6.71	6.44	6.42	6.29	5.98
G108.0	7.39	7.56	7.42	7.15	6.77	6.62	6.63	6.64	6.47	6.29	6.27	6.12	5.83
G109.0	7.20	7.41	7.21	6.98	6.63	6.51	6.45	6.52	6.37	6.09	6.11	5.99	5.65
G110.0	6.98	7.20	7.03	6.80	6.46	6.34	6.26	6.34	6.18	5.89	5.92	5.78	5.53
G111.0	6.84	6.99	6.83	6.59	6.28	6.16	6.14	6.15	6.00	5.74	5.73	5.65	5.39
G112.0	6.57	6.79	6.65	6.43	6.14	6.02	5.97	5.96	5.81	5.58	5.58	5.48	5.25
G113.0	6.37	6.55	6.45	6.26	5.98	5.84	5.84	5.80	5.63	5.37	5.39	5.30	5.11
G114.0	6.21	6.36	6.29	6.07	5.83	5.72	5.65	5.62	5.46	5.20	5.23	5.17	4.96
G115.0	6.02	6.15	6.08	5.92	5.69	5.56	5.46	5.44	5.32	5.05	5.08	5.02	4.85
G116.0	5.79	5.97	5.91	5.75	5.52	5.41	5.34	5.31	5.15	4.90	4.93	4.89	4.71
G117.0	5.61	5.78	5.73	5.59	5.33	5.25	5.23	5.14	4.99	4.74	4.77	4.74	4.60
G118.0	5.41	5.57	5.56	5.40	5.23	5.11	5.07	5.02	4.78	4.57	4.68	4.60	4.43
G119.0	5.26	5.40	5.39	5.26	5.11	4.98	4.92	4.84	4.70	4.46	4.51	4.49	4.36
G120.0	5.05	5.27	5.24	5.11	4.92	4.84	4.78	4.74	4.55	4.34	4.36	4.36	4.21
G121.0	4.92	5.05	5.08	4.96	4.86	4.70	4.64	4.58	4.41	4.18	4.24	4.24	4.11
G122.0	4.76	4.92	4.91	4.83	4.66	4.56	4.50	4.46	4.25	4.06	4.08	4.11	3.99
G123.0	4.58	4.82	4.74	4.69	4.58	4.44	4.39	4.30	4.16	3.90	3.99	3.97	3.90
G124.0	4.43	4.64	4.58	4.52	4.38	4.29	4.23	4.18	4.05	3.81	3.87	3.87	3.79
G125.0	4.32	4.45	4.42	4.44	4.27	4.20	4.14	4.05	3.87	3.66	3.72	3.77	3.65
G126.0	4.15	4.29	4.30	4.27	4.17	4.10	3.98	3.93	3.74	3.57	3.65	3.71	3.56
G127.0	4.00	4.23	4.15	4.18	4.05	3.95	3.91	3.82	3.65	3.48	3.52	3.56	3.52
G128.0	3.89	4.08	4.05	4.04	3.94	3.89	3.80	3.78	3.54	3.39	3.44	3.46	3.43
G129.0	3.77	3.95	3.96	3.96	3.86	3.77	3.73	3.63	3.47	3.28	3.35	3.37	3.34
G130.0	1.89	1.98	1.98	1.98	1.93	1.88	1.87	1.82	1.73	1.64	1.68	1.68	1.67
G131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Luminaire				Measur.				Lamp					
Code	ASR 1x4W			Code	CL673/11-02I			Code	1006B/CL673/11-02L				
Name	ASR 1x4W			Name	ASR 1x4W			Number	1				
Line	Astra Industries 2011			Date	28-03-2011			Position					
Efficiency	100.00%			Coordinate system	C-G			Total Flux	266.25 lm				
Luminous Intensity Table cd/klm Table 5/9													
	C 130.00	C 140.00	C 150.00	C 160.00	C 170.00	C 180.00	C 190.00	C 200.00	C 210.00	C 220.00	C 230.00	C 240.00	C 250.00
G 73.0	61.79	59.32	60.38	58.33	59.06	56.94	57.61	57.52	55.97	56.54	54.54	55.23	53.86
G 74.0	56.31	54.15	55.91	53.56	54.72	52.15	53.08	53.48	51.31	52.07	50.19	50.78	49.47
G 75.0	52.91	49.56	51.57	48.70	50.41	48.12	48.00	48.99	46.91	47.46	45.91	46.37	44.89
G 76.0	47.25	44.51	46.48	44.51	45.76	43.81	43.92	44.77	42.70	43.14	41.83	42.60	40.89
G 77.0	43.32	40.68	42.52	39.96	41.52	39.34	39.99	40.39	38.71	38.73	37.71	38.78	36.98
G 78.0	38.42	36.47	38.21	36.72	38.22	35.92	36.06	36.50	34.56	35.08	33.70	34.48	33.64
G 79.0	34.33	32.72	34.51	32.40	34.19	32.17	32.53	32.50	31.32	31.14	29.93	30.50	30.13
G 80.0	30.52	28.39	30.78	29.04	30.74	29.03	28.95	29.29	27.36	27.25	26.25	27.27	26.81
G 81.0	26.62	25.24	27.12	25.96	27.23	25.59	25.59	25.59	24.09	23.61	22.85	23.87	23.69
G 82.0	23.50	21.52	23.55	22.90	23.81	22.82	22.64	22.99	21.22	20.69	19.63	20.91	20.81
G 83.0	20.08	18.56	20.58	19.71	21.24	19.75	19.88	19.88	18.68	17.94	16.74	18.26	18.59
G 84.0	16.82	15.33	18.26	17.34	18.65	17.12	17.27	17.29	16.17	15.28	13.88	15.84	16.02
G 85.0	13.57	12.20	15.16	14.43	15.07	13.93	14.27	14.84	13.30	11.96	10.75	13.16	13.29
G 86.0	10.47	9.42	12.03	11.30	11.99	10.27	11.17	11.56	10.58	9.14	8.16	10.63	10.05
G 87.0	8.11	7.51	9.51	8.51	9.20	7.87	7.81	8.50	7.99	7.14	6.51	8.08	7.92
G 88.0	6.55	5.89	7.16	6.48	6.61	5.40	5.89	6.41	5.75	5.84	5.58	6.18	5.88
G 89.0	5.43	4.70	5.15	4.61	4.74	3.92	4.29	4.53	4.39	4.57	4.38	4.61	4.09
G 90.0	4.19	4.20	4.06	3.96	3.65	3.67	4.18	3.96	4.63	4.40	4.45	4.33	4.17
G 91.0	5.22	5.95	5.37	6.61	5.92	6.62	6.73	6.66	7.32	5.97	6.11	6.27	6.53
G 92.0	7.31	7.93	7.93	9.17	8.38	9.10	9.27	8.75	9.00	7.93	7.97	8.37	9.00
G 93.0	8.70	8.74	9.87	10.56	10.47	10.65	10.71	10.44	9.68	8.32	7.94	9.51	10.13
G 94.0	8.31	7.99	9.67	10.08	10.56	10.25	10.32	9.81	8.47	7.32	7.08	8.57	9.15
G 95.0	7.48	7.20	8.11	8.63	9.51	9.14	9.04	8.52	7.38	6.83	6.63	7.33	8.01
G 96.0	7.10	6.88	7.35	7.72	8.43	8.09	8.06	7.76	7.01	6.59	6.49	6.90	7.34
G 97.0	6.92	6.75	7.02	7.39	7.77	7.59	7.60	7.35	6.81	6.52	6.46	6.70	7.01
G 98.0	6.78	6.66	6.84	7.12	7.38	7.30	7.32	7.09	6.70	6.47	6.40	6.56	6.81
G 99.0	6.70	6.56	6.73	6.94	7.20	7.11	7.15	6.94	6.62	6.39	6.30	6.48	6.71
G100.0	6.61	6.50	6.64	6.82	7.03	6.91	6.99	6.83	6.52	6.30	6.29	6.41	6.62
G101.0	6.54	6.38	6.53	6.72	6.88	6.78	6.82	6.71	6.42	6.25	6.16	6.33	6.51
G102.0	6.43	6.28	6.44	6.60	6.73	6.63	6.72	6.59	6.34	6.14	6.11	6.23	6.43
G103.0	6.34	6.20	6.33	6.44	6.62	6.48	6.56	6.44	6.20	6.02	5.97	6.16	6.33
G104.0	6.19	6.05	6.24	6.31	6.44	6.37	6.45	6.34	6.07	5.87	5.85	6.01	6.17
G105.0	6.07	5.92	6.04	6.19	6.31	6.16	6.23	6.20	5.92	5.75	5.73	5.90	6.07
G106.0	5.93	5.78	5.92	6.00	6.12	5.98	6.09	6.01	5.78	5.63	5.64	5.78	5.93
G107.0	5.80	5.67	5.77	5.82	5.94	5.85	5.96	5.86	5.63	5.46	5.46	5.61	5.77
G108.0	5.64	5.53	5.62	5.69	5.79	5.65	5.76	5.67	5.47	5.34	5.32	5.44	5.61
G109.0	5.49	5.36	5.47	5.53	5.61	5.46	5.57	5.48	5.30	5.20	5.20	5.33	5.47
G110.0	5.41	5.26	5.33	5.36	5.44	5.31	5.42	5.36	5.21	5.08	5.07	5.20	5.27
G111.0	5.24	5.12	5.21	5.21	5.28	5.12	5.24	5.20	5.01	4.95	4.95	4.99	5.11
G112.0	5.11	4.99	5.06	5.08	5.14	4.99	5.07	5.05	4.79	4.82	4.79	4.89	4.96
G113.0	4.96	4.89	4.89	4.92	4.96	4.86	4.93	4.92	4.77	4.66	4.67	4.75	4.80
G114.0	4.85	4.71	4.78	4.79	4.83	4.68	4.79	4.77	4.61	4.54	4.54	4.61	4.71
G115.0	4.72	4.59	4.62	4.62	4.64	4.51	4.64	4.58	4.51	4.39	4.42	4.48	4.54
G116.0	4.60	4.52	4.51	4.52	4.52	4.34	4.50	4.49	4.36	4.30	4.29	4.36	4.43
G117.0	4.47	4.40	4.37	4.39	4.36	4.27	4.34	4.36	4.25	4.18	4.15	4.23	4.27
G118.0	4.34	4.27	4.27	4.27	4.27	4.12	4.22	4.22	4.13	4.08	4.08	4.11	4.18
G119.0	4.25	4.17	4.18	4.11	4.10	4.01	4.08	4.11	4.02	3.97	3.95	4.01	4.05
G120.0	4.14	4.06	4.06	3.99	3.99	3.87	3.95	3.99	3.93	3.88	3.89	3.92	3.91
G121.0	4.03	3.96	3.96	3.93	3.91	3.75	3.86	3.83	3.83	3.79	3.75	3.80	3.80
G122.0	3.91	3.85	3.81	3.80	3.77	3.64	3.72	3.75	3.69	3.66	3.67	3.67	3.66
G123.0	3.78	3.74	3.71	3.68	3.63	3.53	3.58	3.65	3.60	3.55	3.55	3.56	3.56
G124.0	3.72	3.65	3.62	3.60	3.52	3.42	3.52	3.55	3.51	3.49	3.45	3.45	3.44
G125.0	3.61	3.56	3.50	3.49	3.43	3.34	3.39	3.41	3.40	3.39	3.36	3.39	3.40
G126.0	3.53	3.46	3.43	3.35	3.34	3.24	3.33	3.33	3.34	3.30	3.27	3.30	3.27
G127.0	3.42	3.37	3.37	3.27	3.24	3.11	3.21	3.27	3.24	3.24	3.24	3.19	3.20
G128.0	3.38	3.30	3.26	3.23	3.18	3.02	3.11	3.15	3.15	3.12	3.12	3.14	3.10
G129.0	3.28	3.21	3.17	3.12	3.08	2.99	3.06	3.09	3.08	3.08	3.05	3.04	3.04
G130.0	1.64	1.61	1.59	1.56	1.54	1.49	1.53	1.54	1.54	1.54	1.52	1.52	1.52
G131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Luminaire		Measur.		Lamp	
Code	ASR 1x4W	Code	CL673/11-02L	Code	1006B/CL673/11-02L
Name	ASR 1x4W	Name	ASR 1x4W	Number	1
Line	Astra Industries 2011	Date	28-03-2011	Position	

Efficiency	100.00%	Coordinate system	C-G	Total Flux	266.25 lm
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Luminous Intensity Table cd/klm Table 6/9										
	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00
G 73.0	55.62	55.68	58.34	59.31	62.27	62.79	65.73	65.40	68.00	67.55
G 74.0	51.01	50.66	53.00	54.45	57.88	58.31	60.31	60.84	63.16	61.87
G 75.0	46.14	46.36	49.16	50.31	52.92	53.19	55.44	55.27	58.44	57.90
G 76.0	42.46	42.14	44.82	45.35	47.91	48.51	51.13	50.85	52.72	52.95
G 77.0	38.84	37.90	40.89	41.39	43.58	44.03	45.54	47.39	48.00	47.69
G 78.0	34.62	34.28	36.41	37.23	39.88	39.53	41.58	41.98	43.18	43.70
G 79.0	30.94	30.90	33.04	33.32	35.56	35.02	36.89	37.53	39.46	39.37
G 80.0	27.51	27.45	28.86	29.66	31.50	30.94	32.66	32.88	35.62	35.32
G 81.0	24.85	23.99	25.88	26.20	27.45	27.45	28.28	29.36	31.79	31.82
G 82.0	21.78	21.22	22.59	23.09	23.95	23.51	24.72	25.97	28.09	28.11
G 83.0	19.06	18.48	19.65	20.47	21.05	20.04	20.98	22.76	24.63	24.35
G 84.0	16.68	15.93	17.52	17.73	18.23	16.31	17.83	19.34	21.25	21.10
G 85.0	13.76	13.33	14.41	14.69	15.50	13.43	14.36	16.32	17.84	17.94
G 86.0	10.78	10.42	11.61	11.61	12.51	10.37	11.47	13.54	14.96	14.71
G 87.0	8.48	7.59	8.77	8.49	8.84	7.95	8.64	10.24	11.03	10.50
G 88.0	5.86	5.36	6.36	6.18	7.14	6.32	6.77	7.23	7.95	7.53
G 89.0	4.40	3.65	4.43	4.50	5.20	4.83	5.15	4.70	5.59	5.05
G 90.0	3.62	3.51	3.62	4.18	4.16	4.32	4.43	4.15	4.15	3.93
G 91.0	5.57	5.31	4.86	6.18	6.00	6.15	5.58	6.58	5.65	6.54
G 92.0	8.03	8.41	8.29	9.51	8.75	8.46	8.06	9.32	8.87	9.72
G 93.0	10.03	9.84	9.89	10.48	10.26	9.01	9.21	10.89	11.26	11.60
G 94.0	9.69	9.50	9.75	9.83	9.39	8.29	8.73	10.42	11.77	12.37
G 95.0	8.48	8.35	8.79	8.61	8.38	7.57	8.02	9.16	10.83	11.51
G 96.0	7.76	7.61	8.01	7.88	7.70	7.25	7.55	8.44	9.78	10.46
G 97.0	7.31	7.26	7.51	7.48	7.31	7.13	7.37	8.04	9.13	9.77
G 98.0	7.06	6.95	7.27	7.21	7.10	7.03	7.29	7.82	8.71	9.28
G 99.0	6.91	6.79	7.06	7.03	6.99	6.95	7.20	7.67	8.41	8.92
G100.0	6.76	6.66	6.92	6.97	6.88	6.87	7.15	7.56	8.21	8.77
G101.0	6.65	6.57	6.82	6.83	6.80	6.80	7.07	7.45	8.05	8.54
G102.0	6.53	6.45	6.69	6.75	6.72	6.73	6.96	7.33	7.89	8.33
G103.0	6.45	6.31	6.57	6.61	6.61	6.62	6.90	7.22	7.77	8.18
G104.0	6.30	6.21	6.46	6.49	6.50	6.53	6.76	7.11	7.61	8.04
G105.0	6.18	6.04	6.30	6.38	6.36	6.41	6.59	6.99	7.47	7.84
G106.0	6.01	5.89	6.17	6.24	6.25	6.28	6.47	6.84	7.33	7.66
G107.0	5.82	5.71	6.02	6.11	6.11	6.16	6.36	6.71	7.15	7.50
G108.0	5.69	5.59	5.86	5.91	6.00	5.98	6.22	6.55	6.98	7.30
G109.0	5.55	5.40	5.72	5.78	5.79	5.85	6.06	6.40	6.81	7.12
G110.0	5.37	5.24	5.53	5.60	5.66	5.72	5.92	6.22	6.63	6.92
G111.0	5.23	5.09	5.39	5.41	5.53	5.58	5.76	6.07	6.46	6.72
G112.0	5.06	4.92	5.17	5.26	5.36	5.43	5.61	5.90	6.27	6.51
G113.0	4.90	4.80	5.02	5.11	5.17	5.30	5.49	5.75	6.09	6.31
G114.0	4.75	4.59	4.89	4.99	5.08	5.18	5.38	5.61	5.91	6.16
G115.0	4.59	4.46	4.74	4.86	4.92	5.03	5.21	5.46	5.78	5.96
G116.0	4.45	4.32	4.56	4.68	4.80	4.93	5.05	5.31	5.59	5.76
G117.0	4.33	4.18	4.43	4.57	4.57	4.77	4.93	5.17	5.46	5.58
G118.0	4.17	4.03	4.32	4.43	4.50	4.63	4.80	5.02	5.29	5.40
G119.0	4.03	3.90	4.15	4.27	4.38	4.52	4.67	4.90	5.12	5.25
G120.0	3.90	3.74	4.02	4.16	4.27	4.42	4.53	4.74	4.94	5.07
G121.0	3.78	3.65	3.92	4.02	4.15	4.28	4.38	4.62	4.81	4.92
G122.0	3.67	3.56	3.78	3.93	4.02	4.14	4.24	4.48	4.64	4.74
G123.0	3.56	3.42	3.68	3.80	3.93	4.02	4.17	4.32	4.50	4.61
G124.0	3.45	3.31	3.55	3.71	3.83	3.93	4.02	4.21	4.43	4.47
G125.0	3.31	3.18	3.43	3.55	3.71	3.79	3.93	4.09	4.24	4.30
G126.0	3.23	3.14	3.34	3.49	3.60	3.69	3.84	3.99	4.10	4.17
G127.0	3.15	3.04	3.24	3.40	3.52	3.58	3.71	3.84	3.99	4.05
G128.0	3.09	2.95	3.16	3.30	3.43	3.47	3.63	3.72	3.88	3.93
G129.0	3.00	2.88	3.10	3.21	3.34	3.41	3.52	3.65	3.80	3.80
G130.0	1.50	1.44	1.55	1.61	1.67	1.70	1.76	1.82	1.90	1.90
G131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Luminaire		Measurem.		Lamp									
Code	ASR 1x4W	Code	CL673/11-02I	Code	1006B/CL673/11-02L								
Name	ASR 1x4W	Name	ASR 1x4W	Number	1								
Line	Astra Industries 2011	Date	28-03-2011	Position									
Efficiency	100.00%	Coordinate system	C-G	Total Flux	266.25 lm								
Luminous Intensity Table cd/klm Table 7/9													
	C 0.00	C 10.00	C 20.00	C 30.00	C 40.00	C 50.00	C 60.00	C 70.00	C 80.00	C 90.00	C 100.00	C 110.00	C 120.00
G146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Luminaire				Measurem.				Lamp					
Code	ASR 1x4W			Code	CL673/11-02I			Code	1006B/CL673/11-02L				
Name	ASR 1x4W			Name	ASR 1x4W			Number	1				
Line	Astra Industries 2011			Date	28-03-2011			Position					
Efficiency	100.00%			Coordinate system		C-G		Total Flux		266.25 lm			
Luminous Intensity Table cd/klm								Table 8/9					
	C 130.00	C 140.00	C 150.00	C 160.00	C 170.00	C 180.00	C 190.00	C 200.00	C 210.00	C 220.00	C 230.00	C 240.00	C 250.00
G146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Luminaire		Measur.		Lamp	
Code	ASR 1x4W	Code	CL673/11-021	Code	1006B/CL673/11-02L
Name	ASR 1x4W	Name	ASR 1x4W	Number	1
Line	Astra Industries 2011	Date	28-03-2011	Position	

Efficiency	100.00%	Coordinate system	C-G	Total Flux	266.25 lm
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Luminous Intensity Table cd/klm Table 9/9										
	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00
G146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

