

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: CRT2009141054-001B

Luminaire Tested: **GSL-2GUV4-R1-GSL-SYM-4**

Test Date: 9/18/2020



Test Information

Test Method: LM-41-14
Report Number: CRT2009141054-001B
Test Lab: Intertek Cortland
Test Date: 9/18/2020
Issue Date: 9/23/20
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: GSL-2GUV4-R1-GSL-SYM-4
Description: GSL STRIP W/ SYMMETRIC REFLECTOR
Light Source: Hg Lamp
Two Philips TUV 36W/G36 T8
Ballast/Driver: -

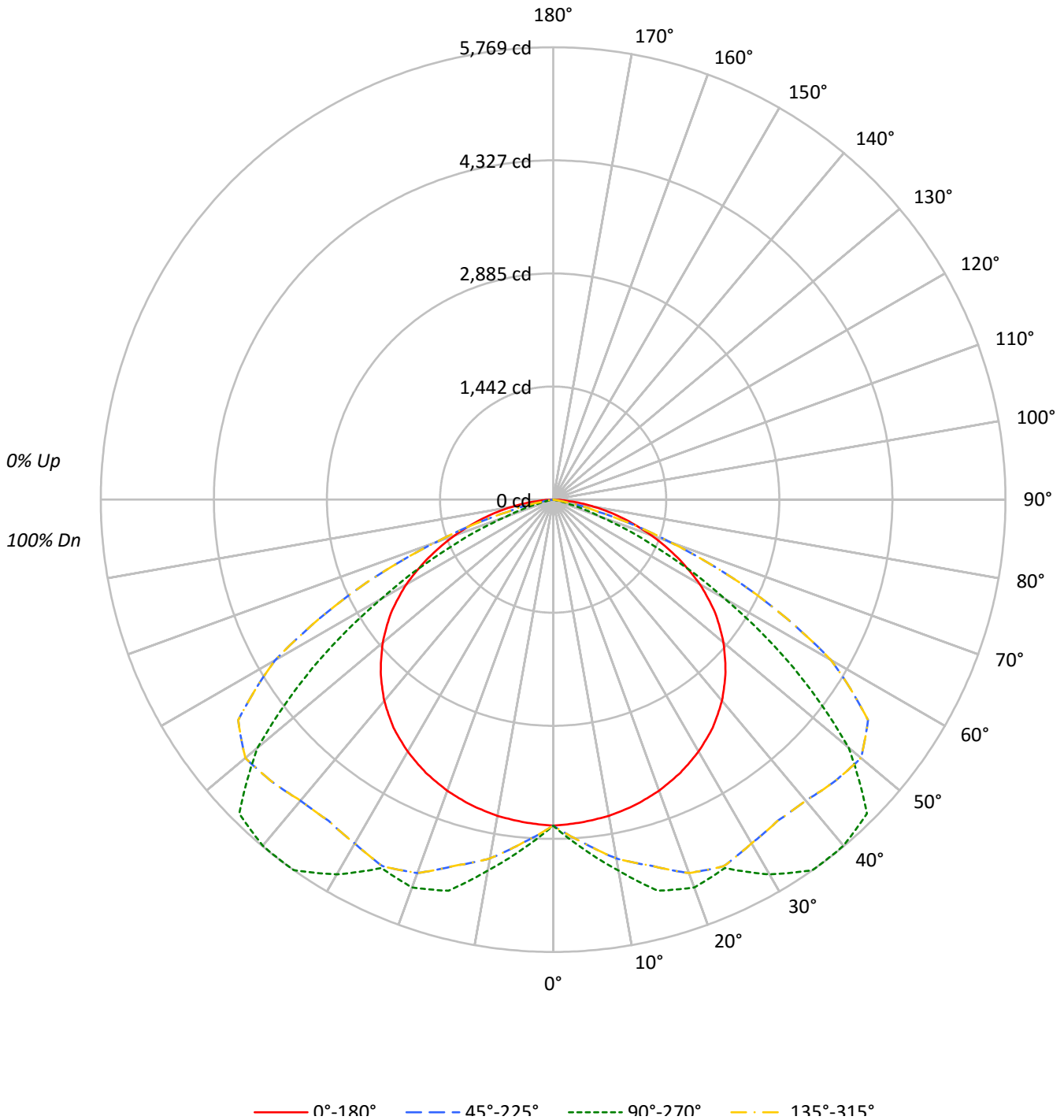
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17700.2 lumens
Efficiency: N/A
Efficacy: 292.2 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.95 / 1.91
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 60.58
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85								
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70								
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	60	58								
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49								
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42								
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36								
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31								
8	59	45	36	30	57	44	36	30	43	35	30	41	35	30	40	34	29	27								
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24								
10	51	37	29	24	50	37	29	24	36	29	24	35	28	24	34	28	23	22								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	26641	26641	26641	26641
5°	26479	27795	26479	27795
10°	26439	29171	26439	29171
15°	26456	30903	26456	30903
20°	26524	31277	26524	31277
25°	26635	30831	26635	30831
30°	26784	33095	26784	33095
35°	26961	35156	26961	35156
40°	27057	35969	27057	35969
45°	27024	36513	27024	36513
50°	26901	33081	26901	33081
55°	26603	26531	26603	26531
60°	25799	19036	25799	19036
65°	24326	12025	24326	12025
70°	22342	5787	22342	5787
75°	19679	1829	19679	1829
80°	16085	0	16085	0
85°	8639	0	8639	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.0	2.4
10°-20°	1347.0	7.6
20°-30°	2252.1	12.7
30°-40°	3090.4	17.5
40°-50°	3696.8	20.9
50°-60°	3523.5	19.9
60°-70°	2373.7	13.4
70°-80°	900.4	5.1
80°-90°	89.1	0.5
90°-100°	5.8	0.0
100°-110°	0.5	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4020.1	22.7
0°-40°	7110.4	40.2
0°-60°	14330.8	81.0
0°-90°	17693.9	100.0
90°-120°	6.2	0.0
90°-150°	6.2	0.0
90°-180°	6.0	0.0
0°-180°	17700.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4158	4158	4158	4158	4158	
5°	4132	4475	4132	4475	4132	393
15°	4034	5164	4034	5164	4034	1140
25°	3842	5184	3842	5184	3842	1773
35°	3550	5769	3550	5769	3550	2220
45°	3109	5661	3109	5661	3109	2397
55°	2526	3748	2526	3748	2526	2249
65°	1751	1482	1751	1482	1751	1732
75°	921	186	921	186	921	980
85°	175	0	175	0	175	230
90°	0	0	0	0	0	24
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: CRT2009141054-001B
 CATALOG NUMBER: GSL-2GUV4-R1-GSL-SYM-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	4158.1	4158.1	4158.1	4158.1	4158.1	4158.1	4158.1	4158.1	4158.1	4158.1	4158.1
5°	4132.3	4250.8	4391.0	4487.3	4474.8	4487.3	4391.0	4250.8	4132.3	4250.8	4391.0
10°	4094.2	4363.4	4647.2	4793.7	4803.8	4793.7	4647.2	4363.4	4094.2	4363.4	4647.2
15°	4034.0	4474.8	4833.5	5124.4	5164.2	5124.4	4833.5	4474.8	4034.0	4474.8	4833.5
20°	3950.2	4543.0	5067.5	5291.5	5263.0	5291.5	5067.5	4543.0	3950.2	4543.0	5067.5
25°	3842.2	4544.7	5156.7	5190.6	5184.3	5190.6	5156.7	4544.7	3842.2	4544.7	5156.7
30°	3709.1	4538.4	5062.1	5314.1	5518.8	5314.1	5062.1	4538.4	3709.1	4538.4	5062.1
35°	3549.6	4509.5	4997.6	5586.2	5768.7	5586.2	4997.6	4509.5	3549.6	4509.5	4997.6
40°	3350.4	4417.0	5011.4	5684.1	5761.1	5684.1	5011.4	4417.0	3350.4	4417.0	5011.4
45°	3109.2	4149.5	5080.5	5686.6	5660.7	5686.6	5080.5	4149.5	3109.2	4149.5	5080.5
50°	2835.5	3880.7	5125.3	5286.4	4919.7	5286.4	5125.3	3880.7	2835.5	3880.7	5125.3
55°	2526.1	3733.4	4903.0	4160.4	3748.0	4160.4	4903.0	3733.4	2526.1	3733.4	4903.0
60°	2161.5	3590.6	4092.6	2933.0	2527.0	2933.0	4092.6	3590.6	2161.5	3590.6	4092.6
65°	1750.8	3323.2	2852.6	1791.5	1481.7	1791.5	2852.6	3323.2	1750.8	3323.2	2852.6
70°	1331.9	2842.2	1591.8	844.3	652.4	844.3	1591.8	2842.2	1331.9	2842.2	1591.8
75°	921.0	1775.1	598.8	283.7	185.5	283.7	598.8	1775.1	921.0	1775.1	598.8
80°	541.0	648.0	69.1	0.0	0.0	0.0	69.1	648.0	541.0	648.0	69.1
85°	174.6	57.9	0.0	0.0	0.0	0.0	0.0	57.9	174.6	57.9	0.0
90°	0.0	31.7	0.0	0.0	0.0	0.0	0.0	31.7	0.0	31.7	0.0
95°	0.0	23.1	0.0	0.0	0.0	0.0	0.0	23.1	0.0	23.1	0.0
100°	0.0	6.8	0.0	0.0	0.0	0.0	0.0	6.8	0.0	6.8	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	4158.1	4158.1	4158.1	4158.1	4158.1	4158.1
5°	4487.3	4474.8	4487.3	4391.0	4250.8	4132.3
10°	4793.7	4803.8	4793.7	4647.2	4363.4	4094.2
15°	5124.4	5164.2	5124.4	4833.5	4474.8	4034.0
20°	5291.5	5263.0	5291.5	5067.5	4543.0	3950.2
25°	5190.6	5184.3	5190.6	5156.7	4544.7	3842.2
30°	5314.1	5518.8	5314.1	5062.1	4538.4	3709.1
35°	5586.2	5768.7	5586.2	4997.6	4509.5	3549.6
40°	5684.1	5761.1	5684.1	5011.4	4417.0	3350.4
45°	5686.6	5660.7	5686.6	5080.5	4149.5	3109.2
50°	5286.4	4919.7	5286.4	5125.3	3880.7	2835.5
55°	4160.4	3748.0	4160.4	4903.0	3733.4	2526.1
60°	2933.0	2527.0	2933.0	4092.6	3590.6	2161.5
65°	1791.5	1481.7	1791.5	2852.6	3323.2	1750.8
70°	844.3	652.4	844.3	1591.8	2842.2	1331.9
75°	283.7	185.5	283.7	598.8	1775.1	921.0
80°	0.0	0.0	0.0	69.1	648.0	541.0
85°	0.0	0.0	0.0	0.0	57.9	174.6
90°	0.0	0.0	0.0	0.0	31.7	0.0
95°	0.0	0.0	0.0	0.0	23.1	0.0
100°	0.0	0.0	0.0	0.0	6.8	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By E9811737 / USPTCWHP6067151





0 - 100

75 - 225

50 - 270

100 - 315









(END OF REPORT)