

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: CRT2009141054-001A

Luminaire Tested: **GSL-1GUV4-R1-GSL-SYM-4**

Test Date: 9/18/2020



Test Information

Test Method: LM-41-14
Report Number: CRT2009141054-001A
The data set was measured in RADIOMETRIC UNITS. The following
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-1GUV4-R1-GSL-SYM-4
Description: GSL STRIP W/ SYMMETRIC REFLECTOR
Light Source: Hg Lamp
One Philips TUV 36W/G36 T8
Ballast/Driver: -

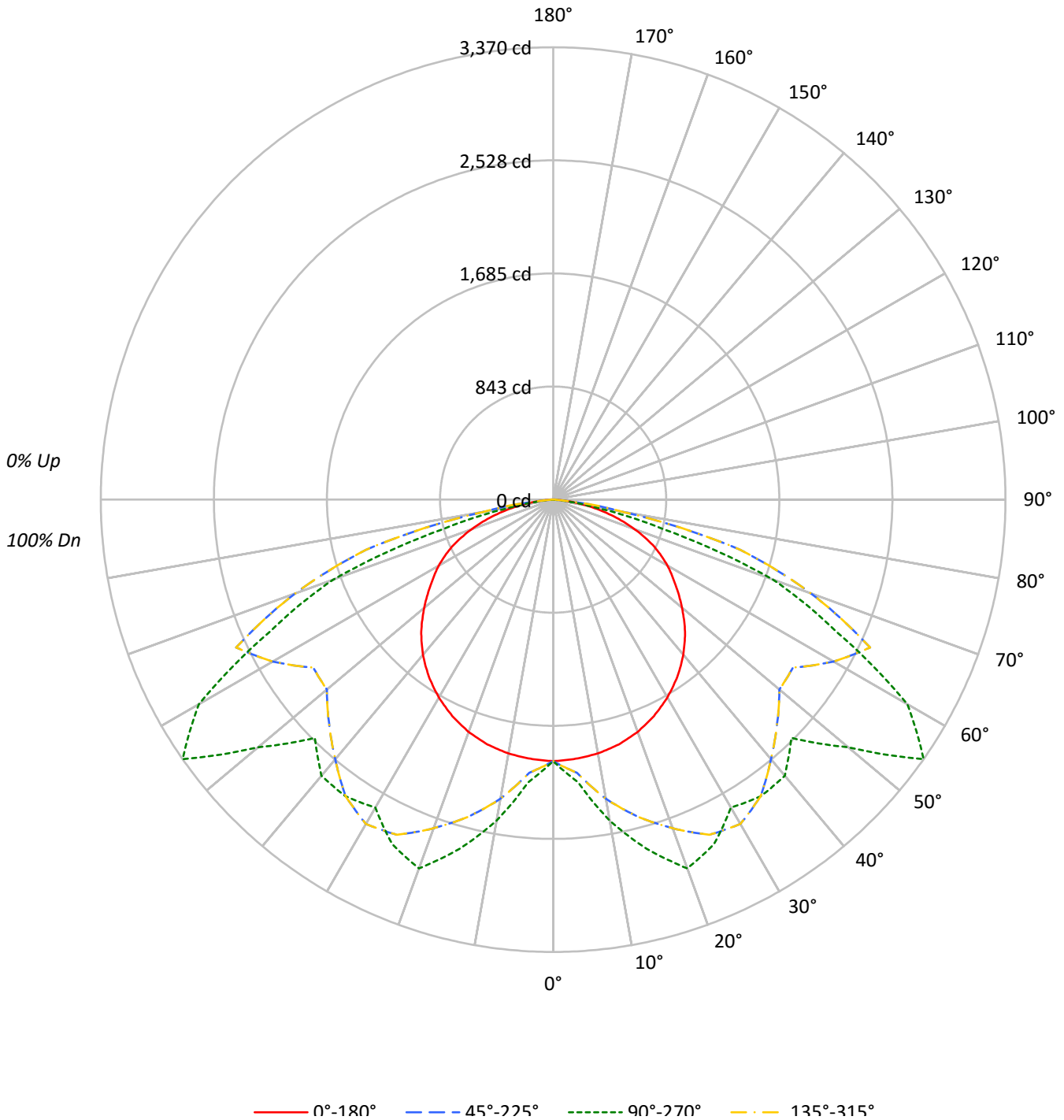
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10786.6 lumens
Efficiency: N/A
Efficacy: 331.0 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.9 / 1.89
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 32.59
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	107	102	97	93	104	99	95	91	95	91	88	91	88	85	87	85	83	80
2	96	87	79	72	93	85	77	71	81	75	70	77	72	68	74	70	66	64
3	86	74	65	58	84	73	64	57	70	62	56	67	60	55	64	59	54	52
4	78	65	55	47	76	63	54	47	61	53	46	58	51	46	56	50	45	42
5	71	57	47	40	69	56	46	39	53	45	39	51	44	38	49	43	38	36
6	65	51	41	34	63	50	40	34	48	39	33	46	38	33	44	38	32	30
7	60	45	36	29	58	44	35	29	43	35	29	41	34	28	40	33	28	26
8	56	41	32	25	54	40	31	25	39	31	25	38	30	25	36	30	25	23
9	52	37	29	23	50	37	28	22	35	28	22	34	27	22	33	27	22	20
10	48	34	26	20	47	34	26	20	33	25	20	32	25	20	31	24	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12485	12485	12485	12485
5°	12417	13116	12417	13116
10°	12400	14749	12400	14749
15°	12382	16115	12382	16115
20°	12362	17377	12362	17377
25°	12327	16857	12327	16857
30°	12288	15888	12288	15888
35°	12248	16443	12248	16443
40°	12188	16764	12188	16764
45°	12080	16188	12080	16188
50°	11895	19293	11895	19293
55°	11749	23854	11749	23854
60°	11747	22960	11747	22960
65°	11581	18910	11581	18910
70°	10892	15468	10892	15468
75°	9616	8339	9616	8339
80°	7556	3033	7556	3033
85°	3792	22	3792	22



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.8	1.9
10°-20°	675.6	6.3
20°-30°	1166.6	10.8
30°-40°	1539.2	14.3
40°-50°	1791.2	16.6
50°-60°	2068.3	19.2
60°-70°	1972.0	18.3
70°-80°	1170.4	10.9
80°-90°	189.1	1.8
90°-100°	10.8	0.1
100°-110°	3.5	0.0
110°-120°	0.1	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°	2042.0	18.9
0°-40°	3581.3	33.2
0°-60°	7440.8	69.0
0°-90°	10772.3	99.9
90°-120°	14.4	0.1
90°-150°	14.4	0.1
90°-180°	14.0	0.1
0°-180°	10786.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1949	1949	1949	1949	1949	
5°	1938	2112	1938	2112	1938	184
15°	1888	2693	1888	2693	1888	533
25°	1778	2834	1778	2834	1778	820
35°	1613	2698	1613	2698	1613	1009
45°	1390	2510	1390	2510	1390	1071
55°	1116	3370	1116	3370	1116	1001
65°	834	2330	834	2330	834	817
75°	450	846	450	846	450	476
85°	77	2	77	2	77	106
90°	0	0	0	0	0	11
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: CRT2009141054-001A
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1948.7	1948.7	1948.7	1948.7	1948.7	1948.7	1948.7	1948.7	1948.7	1948.7	1948.7
5°	1937.8	1968.8	2042.9	2102.7	2111.5	2102.7	2042.9	1968.8	1937.8	1968.8	2042.9
10°	1920.2	2037.0	2263.1	2399.9	2428.8	2399.9	2263.1	2037.0	1920.2	2037.0	2263.1
15°	1888.0	2126.2	2446.0	2640.2	2693.0	2640.2	2446.0	2126.2	1888.0	2126.2	2446.0
20°	1841.1	2203.6	2605.9	2869.6	2924.0	2869.6	2605.9	2203.6	1841.1	2203.6	2605.9
25°	1778.3	2242.5	2755.3	2877.2	2834.5	2877.2	2755.3	2242.5	1778.3	2242.5	2755.3
30°	1701.7	2266.4	2790.5	2684.2	2649.4	2684.2	2790.5	2266.4	1701.7	2266.4	2790.5
35°	1612.5	2321.7	2696.3	2657.4	2698.0	2657.4	2696.3	2321.7	1612.5	2321.7	2696.3
40°	1509.1	2360.6	2525.1	2659.5	2685.0	2659.5	2525.1	2360.6	1509.1	2360.6	2525.1
45°	1389.8	2302.0	2360.6	2468.6	2509.6	2468.6	2360.6	2302.0	1389.8	2302.0	2360.6
50°	1253.8	2439.3	2200.7	2519.3	2869.2	2519.3	2200.7	2439.3	1253.8	2439.3	2200.7
55°	1115.6	1857.8	2181.4	2989.8	3369.9	2989.8	2181.4	1857.8	1115.6	1857.8	2181.4
60°	984.2	1668.2	2412.5	3028.3	3048.0	3028.3	2412.5	1668.2	984.2	1668.2	2412.5
65°	833.5	1492.4	2606.3	2413.3	2330.0	2413.3	2606.3	1492.4	833.5	1492.4	2606.3
70°	649.3	1425.8	2045.8	1859.1	1744.0	1859.1	2045.8	1425.8	649.3	1425.8	2045.8
75°	450.1	1479.0	1441.7	1008.5	845.7	1008.5	1441.7	1479.0	450.1	1479.0	1441.7
80°	254.1	947.4	533.8	327.8	270.9	327.8	533.8	947.4	254.1	947.4	533.8
85°	76.7	237.8	45.3	8.3	1.7	8.3	45.3	237.8	76.7	237.8	45.3
90°	0.0	47.8	0.0	0.0	0.0	0.0	0.0	47.8	0.0	47.8	0.0
95°	0.0	41.1	0.0	0.0	0.0	0.0	0.0	41.1	0.0	41.1	0.0
100°	0.0	28.6	0.0	0.0	0.0	0.0	0.0	28.6	0.0	28.6	0.0
105°	0.0	11.0	0.0	0.0	0.0	0.0	0.0	11.0	0.0	11.0	0.0
110°	0.0	1.4	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.4	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°	1948.7	1948.7	1948.7	1948.7	1948.7	1948.7
5°	2102.7	2111.5	2102.7	2042.9	1968.8	1937.8
10°	2399.9	2428.8	2399.9	2263.1	2037.0	1920.2
15°	2640.2	2693.0	2640.2	2446.0	2126.2	1888.0
20°	2869.6	2924.0	2869.6	2605.9	2203.6	1841.1
25°	2877.2	2834.5	2877.2	2755.3	2242.5	1778.3
30°	2684.2	2649.4	2684.2	2790.5	2266.4	1701.7
35°	2657.4	2698.0	2657.4	2696.3	2321.7	1612.5
40°	2659.5	2685.0	2659.5	2525.1	2360.6	1509.1
45°	2468.6	2509.6	2468.6	2360.6	2302.0	1389.8
50°	2519.3	2869.2	2519.3	2200.7	2439.3	1253.8
55°	2989.8	3369.9	2989.8	2181.4	1857.8	1115.6
60°	3028.3	3048.0	3028.3	2412.5	1668.2	984.2
65°	2413.3	2330.0	2413.3	2606.3	1492.4	833.5
70°	1859.1	1744.0	1859.1	2045.8	1425.8	649.3
75°	1008.5	845.7	1008.5	1441.7	1479.0	450.1
80°	327.8	270.9	327.8	533.8	947.4	254.1
85°	8.3	1.7	8.3	45.3	237.8	76.7
90°	0.0	0.0	0.0	0.0	47.8	0.0
95°	0.0	0.0	0.0	0.0	41.1	0.0
100°	0.0	0.0	0.0	0.0	28.6	0.0
105°	0.0	0.0	0.0	0.0	11.0	0.0
110°	0.0	0.0	0.0	0.0	1.4	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)