

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-ASYM-4**

Test Date: 9/18/2020



Test Information

Test Method: LM-41-14
Report Number: CRT2009141054-001B
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-2GUV4-R1-GSL-ASYM-4
Description: GSL STRIP W/ ASYMMETRIC REFLECTOR
Light Source: Hg Lamp
Two Philips TUV 36W/G36 T8
Ballast/Driver: -

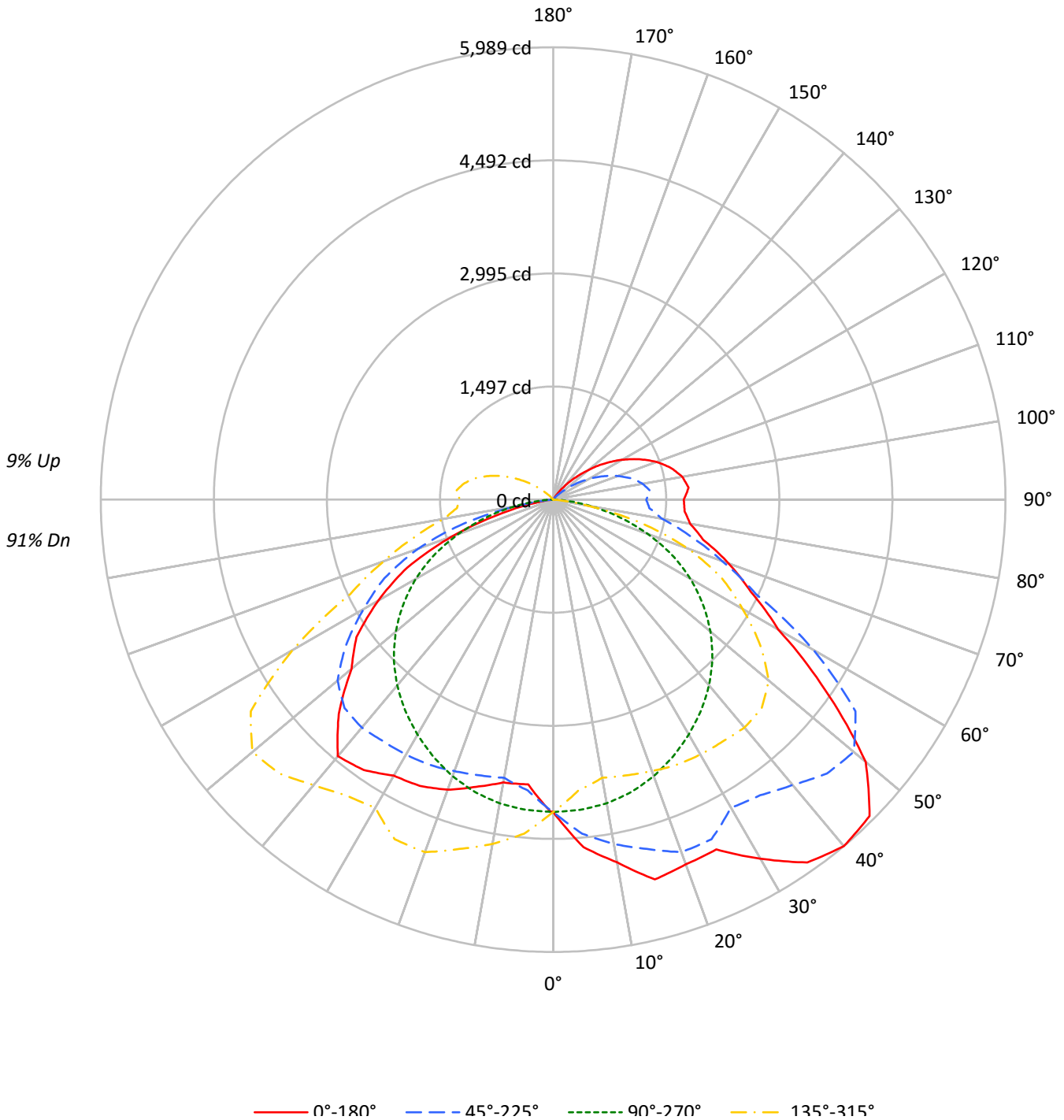
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19259.8 lumens
Efficiency: N/A
Efficacy: 317.9 lumens/watt
Spacing Criteria (0/90/45): 1.82 / 1.29 / 1.78
Luminous Opening: Rectangular w/ Sides (W: 0.5' 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									
RC	80									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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91																			
1	105	100	95	91	102	97	92	88	91	87	84	85	83	80	80	78	76	73																			
2	95	86	78	72	91	83	76	71	78	72	68	74	69	65	69	65	62	59																			
3	86	74	66	59	82	72	64	58	68	61	55	64	58	53	60	55	51	49																			
4	78	65	56	49	75	63	55	48	60	52	46	56	50	45	53	48	43	41																			
5	71	58	48	41	68	56	47	41	53	45	39	50	43	38	47	41	37	34																			
6	65	51	42	35	63	50	41	35	47	40	34	45	38	33	42	36	32	29																			
7	60	46	37	31	58	45	36	30	43	35	29	40	34	29	38	32	28	26																			
8	56	42	33	27	54	41	32	27	39	31	26	37	30	25	35	29	25	22																			
9	52	38	30	24	50	37	29	24	35	28	23	34	27	22	32	26	22	20																			
10	49	35	27	21	47	34	26	21	33	26	21	31	25	20	30	24	20	18																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	22248	22248	22433	22248
5°	24859	21630	20375	21630
10°	26446	21045	20624	21045
15°	28676	20461	21684	20461
20°	28981	19850	23057	19850
25°	29759	19237	24346	19237
30°	33293	18653	25592	18653
35°	37418	18102	27878	18102
40°	40630	17552	30078	17552
45°	43257	16938	29306	16938
50°	43050	16202	27758	16202
55°	38915	15303	28109	15303
60°	34527	14218	26801	14218
65°	33705	12809	24881	12809
70°	34840	10890	20019	10890
75°	36909	8438	12527	8438
80°	45954	5475	5315	5475
85°	72580	2078	0	2078



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.0	2.1
10°-20°	1211.3	6.3
20°-30°	1990.6	10.3
30°-40°	2731.0	14.2
40°-50°	3267.4	17.0
50°-60°	3185.5	16.5
60°-70°	2529.4	13.1
70°-80°	1545.2	8.0
80°-90°	738.6	3.8
90°-100°	598.2	3.1
100°-110°	493.9	2.6
110°-120°	327.2	1.7
120°-130°	171.8	0.9
130°-140°	61.6	0.3
140°-150°	9.9	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3599.9	18.7
0°-40°	6331.0	32.9
0°-60°	12783.8	66.4
0°-90°	17596.9	91.4
90°-120°	1419.3	7.4
90°-150°	1662.6	8.6
90°-180°	1663.0	8.6
0°-180°	19259.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4134	4134	4168	4134	4134	
5°	4618	4123	3785	4123	4618	444
15°	5205	4007	3936	4007	5205	1450
25°	5111	3753	4181	3753	5111	2416
35°	5865	3411	4369	3411	5865	3650
45°	5925	2982	4014	2982	5925	4495
55°	4399	2423	3178	2423	4399	3944
65°	2888	1739	2132	1739	2888	2897
75°	2057	921	698	921	2057	2226
85°	1746	164	0	164	1746	1451
90°	1729	2	0	2	1729	960
95°	1800	0	0	0	1800	1430
105°	1617	0	0	0	1617	1701
115°	1263	0	0	0	1263	1252
125°	835	0	0	0	835	751
135°	401	0	0	0	401	320
145°	74	0	0	0	74	63
155°	0	0	0	0	0	2
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	4133.8	4133.8	4133.8	4133.8	4133.8	4130.5	4138.2	4153.8	4168.2	4153.8	4138.2
5°	4618.4	4550.2	4439.7	4287.7	4122.8	3964.5	3864.1	3822.6	3785.4	3822.6	3864.1
10°	4875.4	4785.0	4628.5	4406.6	4081.8	3789.6	3739.8	3798.8	3802.1	3798.8	3739.8
15°	5205.3	5071.4	4788.8	4445.1	4006.8	3664.8	3777.8	3913.1	3936.1	3913.1	3777.8
20°	5138.3	5145.5	4966.3	4465.2	3894.6	3593.7	3825.2	4038.6	4088.0	4038.6	3825.2
25°	5110.7	4944.9	4960.8	4490.7	3753.2	3542.6	3874.1	4133.7	4181.0	4133.7	3874.1
30°	5488.7	5233.8	4709.7	4495.3	3590.7	3472.3	3898.0	4145.4	4219.1	4145.4	3898.0
35°	5864.6	5568.7	4777.5	4450.6	3411.1	3374.3	3910.1	4250.0	4369.3	4250.0	3910.1
40°	5989.4	5759.1	4932.0	4249.6	3211.0	3299.4	3939.9	4361.8	4433.8	4361.8	3939.9
45°	5924.9	5726.9	5126.6	3921.9	2982.1	3202.7	3903.9	4132.0	4013.9	4132.0	3903.9
50°	5402.1	5764.6	5195.3	3763.6	2719.2	3043.6	3725.1	3577.3	3483.1	3577.3	3725.1
55°	4399.1	4482.8	4886.8	3611.2	2422.8	2822.2	3344.2	3210.6	3177.6	3210.6	3344.2
60°	3443.8	3466.8	3980.9	3557.2	2098.8	2635.5	2896.7	2792.4	2673.1	2792.4	2896.7
65°	2887.9	2848.5	2964.1	3315.7	1739.2	2367.1	2464.7	2263.7	2131.9	2263.7	2464.7
70°	2472.6	2437.9	2385.1	2733.4	1338.6	1932.6	1904.6	1599.4	1420.7	1599.4	1904.6
75°	2056.5	2002.9	1889.5	1798.7	920.7	1467.5	1220.4	839.2	698.0	839.2	1220.4
80°	1840.1	1737.1	1461.7	1134.6	517.3	926.1	459.8	268.1	212.8	268.1	459.8
85°	1746.3	1629.1	1277.5	694.4	164.4	238.2	30.5	0.0	0.0	0.0	30.5
90°	1729.2	1604.8	1232.1	584.9	2.2	39.8	0.0	0.0	0.0	0.0	0.0
95°	1800.3	1676.0	1292.7	600.8	0.0	36.2	0.0	0.0	0.0	0.0	0.0
100°	1736.3	1606.5	1204.0	509.2	0.0	17.2	0.0	0.0	0.0	0.0	0.0
105°	1616.6	1484.6	1077.5	382.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0
110°	1458.3	1324.6	911.9	244.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	1262.8	1133.8	732.4	132.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	1054.8	931.9	544.4	50.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	835.4	719.1	364.3	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	610.2	508.0	200.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	400.9	319.6	80.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	225.5	160.8	26.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	73.6	47.7	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	14.2	6.1	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°	4130.5	4133.8	4133.8	4133.8	4133.8	4133.8
5°	3964.5	4122.8	4287.7	4439.7	4550.2	4618.4
10°	3789.6	4081.8	4406.6	4628.5	4785.0	4875.4
15°	3664.8	4006.8	4445.1	4788.8	5071.4	5205.3
20°	3593.7	3894.6	4465.2	4966.3	5145.5	5138.3
25°	3542.6	3753.2	4490.7	4960.8	4944.9	5110.7
30°	3472.3	3590.7	4495.3	4709.7	5233.8	5488.7
35°	3374.3	3411.1	4450.6	4777.5	5568.7	5864.6
40°	3299.4	3211.0	4249.6	4932.0	5759.1	5989.4
45°	3202.7	2982.1	3921.9	5126.6	5726.9	5924.9
50°	3043.6	2719.2	3763.6	5195.3	5764.6	5402.1
55°	2822.2	2422.8	3611.2	4886.8	4482.8	4399.1
60°	2635.5	2098.8	3557.2	3980.9	3466.8	3443.8
65°	2367.1	1739.2	3315.7	2964.1	2848.5	2887.9
70°	1932.6	1338.6	2733.4	2385.1	2437.9	2472.6
75°	1467.5	920.7	1798.7	1889.5	2002.9	2056.5
80°	926.1	517.3	1134.6	1461.7	1737.1	1840.1
85°	238.2	164.4	694.4	1277.5	1629.1	1746.3
90°	39.8	2.2	584.9	1232.1	1604.8	1729.2
95°	36.2	0.0	600.8	1292.7	1676.0	1800.3
100°	17.2	0.0	509.2	1204.0	1606.5	1736.3
105°	3.7	0.0	382.0	1077.5	1484.6	1616.6
110°	0.0	0.0	244.6	911.9	1324.6	1458.3
115°	0.0	0.0	132.1	732.4	1133.8	1262.8
120°	0.0	0.0	50.8	544.4	931.9	1054.8
125°	0.0	0.0	13.5	364.3	719.1	835.4
130°	0.0	0.0	0.0	200.9	508.0	610.2
135°	0.0	0.0	0.0	80.1	319.6	400.9
140°	0.0	0.0	0.0	26.8	160.8	225.5
145°	0.0	0.0	0.0	2.0	47.7	73.6
150°	0.0	0.0	0.0	0.0	6.1	14.2
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)