

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-1GUV4-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-1GUV4-R1-GSL-ASYM-4
Description: GSL STRIP W/ ASYMMETRIC REFLECTOR
Light Source: One Philips TUV 36W/G36 T8
120.17 VAC, 272.2 mA, 32.59 W, 0.996 P_{0.996}
Ballast/Driver: -

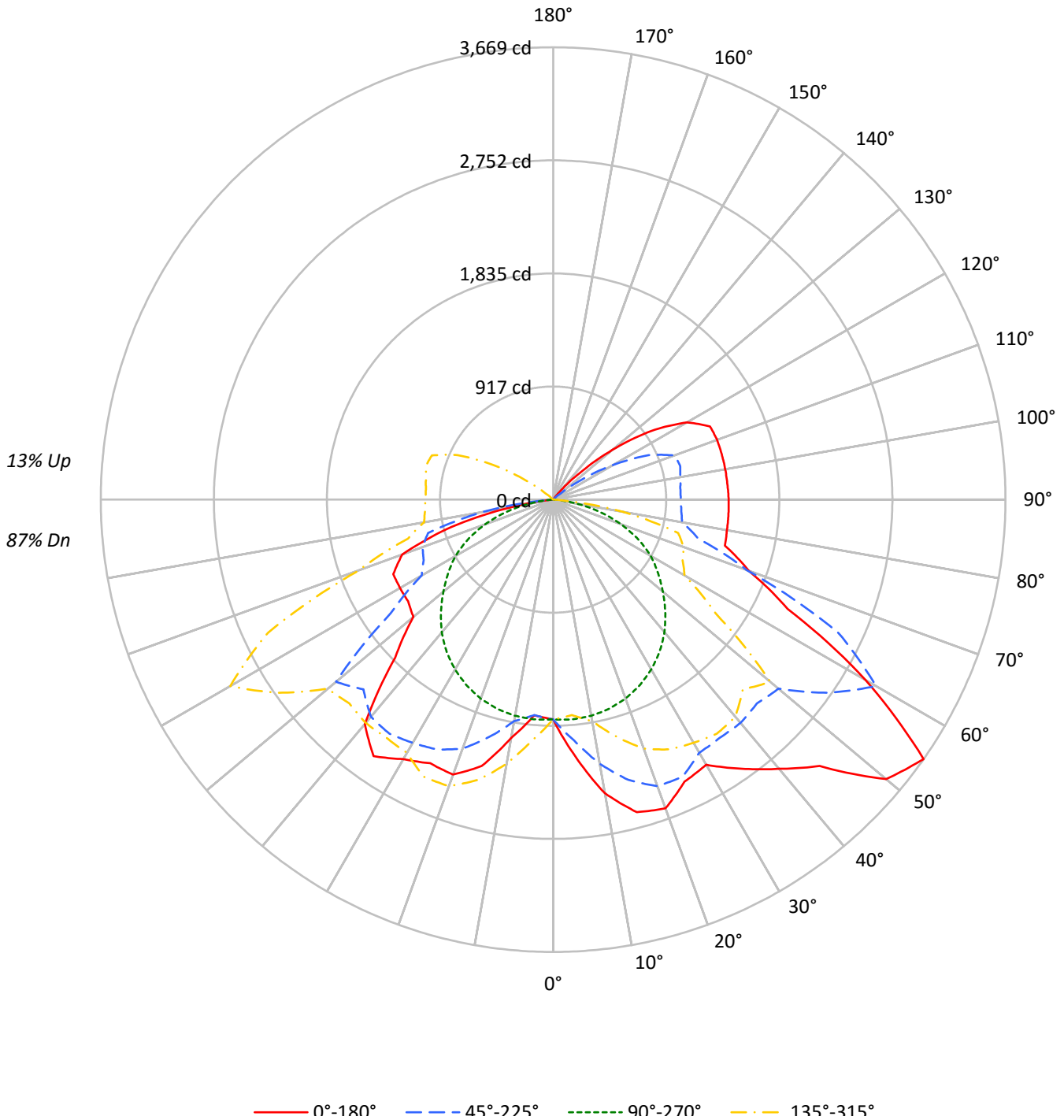
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11421.4 lumens
Efficiency: N/A
Efficacy: 350.5 lumens/watt
Spacing Criteria (0/90/45): 1.96 / 1.32 / 1.95
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4' x H: 0.17')
CIE Type: Semi-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									
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	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90	87																			
1	103	97	92	88	99	94	89	85	87	83	80	81	78	75	75	73	70	67																			
2	93	83	75	69	88	80	73	67	74	68	63	69	64	60	64	60	56	53																			
3	83	72	63	55	80	69	61	54	64	57	51	59	54	49	55	50	46	43																			
4	76	62	53	46	72	60	51	44	56	48	42	52	46	40	48	43	38	36																			
5	69	55	45	38	66	53	44	37	49	42	36	46	39	34	43	37	33	30																			
6	63	49	39	33	60	47	38	32	44	36	31	41	34	29	38	32	28	25																			
7	58	44	35	28	56	43	34	28	40	32	27	37	30	25	35	29	24	22																			
8	54	40	31	25	52	39	30	24	36	29	23	34	27	22	32	26	21	19																			
9	50	36	28	22	48	35	27	21	33	26	21	31	24	20	29	23	19	17																			
10	47	33	25	20	45	32	24	19	30	23	18	28	22	18	27	21	17	15																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9591	9591	9591	9591
5°	11272	9386	9452	9386
10°	13120	9175	10647	9175
15°	14459	8967	12322	8967
20°	15030	8751	13384	8751
25°	14693	8514	13740	8514
30°	15062	8265	14742	8265
35°	17000	7991	16209	7991
40°	19336	7677	16112	7677
45°	22313	7307	13221	7307
50°	28102	6918	11787	6918
55°	32454	6564	12710	6564
60°	29336	6196	14369	6196
65°	24496	5604	16691	5604
70°	23805	4789	18341	4789
75°	25892	3665	15255	3665
80°	35746	2187	7691	2187
85°	59305	578	276	578



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.3	1.6
10°-20°	604.8	5.3
20°-30°	1021.8	8.9
30°-40°	1397.5	12.2
40°-50°	1651.4	14.5
50°-60°	1784.2	15.6
60°-70°	1566.8	13.7
70°-80°	1085.6	9.5
80°-90°	593.2	5.2
90°-100°	498.7	4.4
100°-110°	465.6	4.1
110°-120°	352.9	3.1
120°-130°	177.0	1.5
130°-140°	39.4	0.3
140°-150°	1.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1807.9	15.8
0°-40°	3205.3	28.1
0°-60°	6640.9	58.1
0°-90°	9886.5	86.6
90°-120°	1317.2	11.5
90°-150°	1534.9	13.4
90°-180°	1535.0	13.4
0°-180°	11421.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1782	1782	1782	1782	1782	
5°	2094	1789	1756	1789	2094	208
15°	2625	1756	2237	1756	2625	735
25°	2523	1661	2360	1661	2523	1178
35°	2664	1506	2541	1506	2664	1678
45°	3056	1286	1811	1286	3056	2424
55°	3669	1039	1437	1039	3669	3089
65°	2099	761	1430	761	2099	2181
75°	1443	400	850	400	1443	1588
85°	1427	46	7	46	1427	1167
90°	1424	0	0	0	1424	780
95°	1419	0	0	0	1419	1160
105°	1416	0	0	0	1416	1499
115°	1404	0	0	0	1404	1360
125°	972	0	0	0	972	862
135°	302	0	0	0	302	258
145°	0	0	0	0	0	13
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1782.0	1782.0	1782.0	1782.0	1782.0	1782.0	1782.0	1782.0	1782.0	1782.0	1782.0
5°	2094.3	2044.0	1962.0	1866.6	1789.1	1753.5	1753.9	1766.9	1756.0	1766.9	1753.9
10°	2418.7	2335.4	2174.7	1967.0	1779.5	1741.8	1823.9	1935.6	1962.8	1935.6	1823.9
15°	2624.7	2540.5	2353.8	2112.7	1756.0	1752.3	1991.3	2191.8	2236.6	2191.8	1991.3
20°	2664.8	2624.7	2473.5	2156.7	1717.1	1782.4	2149.5	2349.2	2373.1	2349.2	2149.5
25°	2523.4	2499.1	2480.7	2155.4	1661.0	1825.9	2235.3	2359.7	2359.7	2359.7	2235.3
30°	2483.2	2431.7	2370.6	2181.8	1591.1	1870.3	2277.6	2390.2	2430.4	2390.2	2277.6
35°	2664.4	2555.6	2358.0	2142.4	1505.8	1915.9	2316.6	2489.0	2540.5	2489.0	2316.6
40°	2850.3	2703.8	2364.3	2060.0	1404.5	1944.4	2299.0	2439.6	2375.2	2439.6	2299.0
45°	3056.2	2833.1	2337.5	1951.9	1286.4	1901.3	2176.3	2021.0	1810.9	2021.0	2176.3
50°	3526.3	3091.4	2385.2	1809.6	1161.0	1770.3	2299.0	1560.7	1479.0	1560.7	2299.0
55°	3668.7	3505.4	2731.0	1681.5	1039.3	1635.5	1607.9	1393.1	1436.8	1393.1	1607.9
60°	2926.1	2957.5	3024.0	1625.0	914.6	1505.9	1230.6	1381.3	1433.2	1381.3	1230.6
65°	2098.9	2076.7	2551.0	1633.4	761.0	1288.8	1158.9	1371.7	1430.1	1371.7	1158.9
70°	1689.5	1615.0	1674.8	1794.1	588.7	949.1	1126.2	1323.5	1301.7	1323.5	1126.2
75°	1442.6	1360.8	1218.7	1504.2	399.9	677.5	1050.3	946.4	850.0	946.4	1050.3
80°	1431.3	1337.8	1061.6	701.2	206.6	584.5	578.5	378.6	308.0	378.6	578.5
85°	1426.9	1331.2	1043.4	531.9	45.7	264.9	67.8	18.0	6.6	18.0	67.8
90°	1424.0	1328.0	1034.5	507.8	0.3	65.2	0.0	0.0	0.0	0.0	0.0
95°	1419.1	1325.2	1035.7	521.8	0.0	55.5	0.0	0.0	0.0	0.0	0.0
100°	1417.6	1326.8	1047.3	562.3	0.0	38.3	0.0	0.0	0.0	0.0	0.0
105°	1416.4	1330.1	1066.5	435.2	0.0	13.8	0.0	0.0	0.0	0.0	0.0
110°	1415.5	1335.3	1047.2	194.6	0.0	2.3	0.0	0.0	0.0	0.0	0.0
115°	1404.2	1298.1	852.7	36.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	1252.4	1101.8	561.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	972.3	800.6	275.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	626.6	464.8	75.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	302.0	187.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	76.9	24.2	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°	1782.0	1782.0	1782.0	1782.0	1782.0	1782.0
5°	1753.5	1789.1	1866.6	1962.0	2044.0	2094.3
10°	1741.8	1779.5	1967.0	2174.7	2335.4	2418.7
15°	1752.3	1756.0	2112.7	2353.8	2540.5	2624.7
20°	1782.4	1717.1	2156.7	2473.5	2624.7	2664.8
25°	1825.9	1661.0	2155.4	2480.7	2499.1	2523.4
30°	1870.3	1591.1	2181.8	2370.6	2431.7	2483.2
35°	1915.9	1505.8	2142.4	2358.0	2555.6	2664.4
40°	1944.4	1404.5	2060.0	2364.3	2703.8	2850.3
45°	1901.3	1286.4	1951.9	2337.5	2833.1	3056.2
50°	1770.3	1161.0	1809.6	2385.2	3091.4	3526.3
55°	1635.5	1039.3	1681.5	2731.0	3505.4	3668.7
60°	1505.9	914.6	1625.0	3024.0	2957.5	2926.1
65°	1288.8	761.0	1633.4	2551.0	2076.7	2098.9
70°	949.1	588.7	1794.1	1674.8	1615.0	1689.5
75°	677.5	399.9	1504.2	1218.7	1360.8	1442.6
80°	584.5	206.6	701.2	1061.6	1337.8	1431.3
85°	264.9	45.7	531.9	1043.4	1331.2	1426.9
90°	65.2	0.3	507.8	1034.5	1328.0	1424.0
95°	55.5	0.0	521.8	1035.7	1325.2	1419.1
100°	38.3	0.0	562.3	1047.3	1326.8	1417.6
105°	13.8	0.0	435.2	1066.5	1330.1	1416.4
110°	2.3	0.0	194.6	1047.2	1335.3	1415.5
115°	0.0	0.0	36.1	852.7	1298.1	1404.2
120°	0.0	0.0	0.9	561.8	1101.8	1252.4
125°	0.0	0.0	0.0	275.7	800.6	972.3
130°	0.0	0.0	0.0	75.6	464.8	626.6
135°	0.0	0.0	0.0	0.0	187.8	302.0
140°	0.0	0.0	0.0	0.0	24.2	76.9
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)