

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: CRT2007161432-015-001

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

Test Date: 7/31/20

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-41-14
Report Number: CRT2007161432-015-001
The data set was measured in RADIOMETRIC UNITS. The following
Test Lab: Intertek Cortland
Test Date: 7/31/20
Issue Date: 7/31/20
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: Fail-Safe
Catalog Number: GSL-2GUV4-R1
Description: GSL Strip Luminaire
Light Source: 2 Philips TUV 36W/G36 T8
Ballast/Driver: -

Luminaire Equipment:	<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
	AS-5443-1	Good	WHITE TWIN R-EVOLVE FLOOD
	AS-5443-2	Good	REFLECTOR
	AS-5443-3	Good	DRIVER
	AS-5443-4	Good	UPPER MODULE
	AS-5443-5	Good	LENS
	AS-5443-6	Good	DRIVER 2
	AS-5443-7	Good	TRIM RING

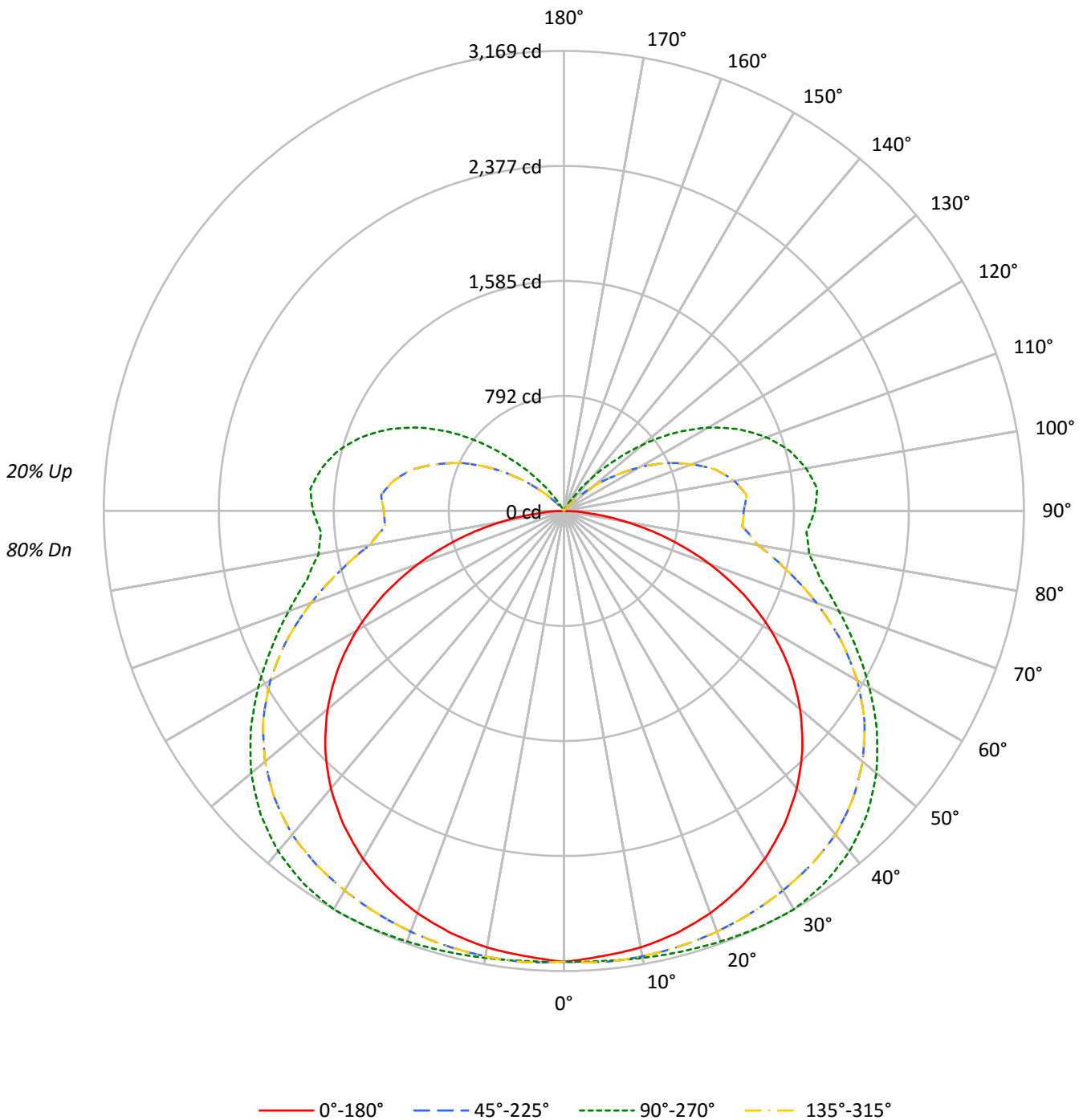
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16836.8 lumens
Efficiency: N/A
Efficacy: 275.0 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.53 / 1.62
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 61.23
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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CATALOG NUMBER: GSL-2GUV4-R1

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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	101	95	90	85	96	91	86	82	83	79	75	75	72	69	68	66	64	60
2	91	81	73	67	86	77	70	64	70	65	60	64	59	55	58	54	51	48
3	82	70	61	54	78	67	59	52	61	54	49	56	50	45	50	46	42	39
4	74	61	52	45	70	59	50	43	54	46	40	49	43	38	44	39	35	32
5	68	54	45	38	64	52	43	37	48	40	34	43	37	32	40	34	30	27
6	63	49	39	32	59	46	38	31	43	35	30	39	33	28	36	30	26	23
7	58	44	35	28	55	42	33	27	38	31	26	35	29	24	32	27	23	20
8	54	40	31	25	51	38	30	24	35	28	23	32	26	21	30	24	20	18
9	50	36	28	22	47	35	27	21	32	25	20	30	23	19	27	22	18	16
10	47	33	25	20	44	32	24	19	30	23	18	27	21	17	25	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	33423	33423	33423	33423
5°	33247	33614	33247	33614
10°	33369	34167	33369	34167
15°	33531	35002	33531	35002
20°	33780	36151	33780	36151
25°	34062	37613	34062	37613
30°	34391	39388	34391	39388
35°	34730	41129	34730	41129
40°	35072	43011	35072	43011
45°	35377	44967	35377	44967
50°	35585	47055	35585	47055
55°	35675	49393	35675	49393
60°	35499	52313	35499	52313
65°	34868	56542	34868	56542
70°	33612	63447	33612	63447
75°	31358	76190	31358	76190
80°	27398	106370	27398	106370
85°	19637	207236	19637	207236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.7	1.8
10°-20°	875.6	5.2
20°-30°	1404.8	8.3
30°-40°	1837.1	10.9
40°-50°	2104.9	12.5
50°-60°	2151.3	12.8
60°-70°	1954.8	11.6
70°-80°	1573.6	9.3
80°-90°	1234.1	7.3
90°-100°	1164.8	6.9
100°-110°	989.3	5.9
110°-120°	689.1	4.1
120°-130°	385.3	2.3
130°-140°	148.2	0.9
140°-150°	26.8	0.2
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2577.0	15.3
0°-40°	4414.1	26.2
0°-60°	8670.3	51.5
0°-90°	13432.8	79.8
90°-120°	2843.2	16.9
90°-150°	3403.6	20.2
90°-180°	3404.0	20.2
0°-180°	16836.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3105	3105	3105	3105	3105	
5°	3077	3111	3077	3111	3077	293
15°	3009	3141	3009	3141	3009	851
25°	2868	3167	2868	3167	2868	1323
35°	2643	3130	2643	3130	2643	1654
45°	2324	2954	2324	2954	2324	1791
55°	1901	2632	1901	2632	1901	1696
65°	1369	2220	1369	2220	1369	1351
75°	754	1832	754	1832	754	796
85°	159	1678	159	1678	159	196
90°	0	1728	0	1728	0	22
95°	0	1752	0	1752	0	0
105°	0	1608	0	1608	0	0
115°	0	1330	0	1330	0	0
125°	0	940	0	940	0	0
135°	0	481	0	481	0	0
145°	0	125	0	125	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	3105.1	3105.1	3105.1	3105.1	3105.1	3105.1	3105.1	3105.1	3105.1	3105.1	3105.1
5°	3077.0	3098.0	3120.0	3130.0	3111.0	3130.0	3120.0	3098.0	3077.0	3098.0	3120.0
10°	3053.0	3080.0	3115.0	3136.0	3126.0	3136.0	3115.0	3080.0	3053.0	3080.0	3115.0
15°	3009.0	3048.0	3103.0	3144.0	3141.0	3144.0	3103.0	3048.0	3009.0	3048.0	3103.0
20°	2949.0	3000.0	3084.0	3147.0	3156.0	3147.0	3084.0	3000.0	2949.0	3000.0	3084.0
25°	2868.0	2937.0	3056.0	3148.0	3167.0	3148.0	3056.0	2937.0	2868.0	2937.0	3056.0
30°	2767.0	2858.0	3019.0	3142.0	3169.0	3142.0	3019.0	2858.0	2767.0	2858.0	3019.0
35°	2643.0	2763.0	2973.0	3109.0	3130.0	3109.0	2973.0	2763.0	2643.0	2763.0	2973.0
40°	2496.0	2650.0	2911.0	3039.0	3061.0	3039.0	2911.0	2650.0	2496.0	2650.0	2911.0
45°	2324.0	2522.0	2813.0	2939.0	2954.0	2939.0	2813.0	2522.0	2324.0	2522.0	2813.0
50°	2125.0	2376.0	2686.0	2799.0	2810.0	2799.0	2686.0	2376.0	2125.0	2376.0	2686.0
55°	1901.0	2213.0	2529.0	2624.0	2632.0	2624.0	2529.0	2213.0	1901.0	2213.0	2529.0
60°	1649.0	2024.0	2334.0	2421.0	2430.0	2421.0	2334.0	2024.0	1649.0	2024.0	2334.0
65°	1369.0	1801.0	2105.0	2200.0	2220.0	2200.0	2105.0	1801.0	1369.0	2105.0	2200.0
70°	1068.0	1554.0	1852.0	1980.0	2016.0	1980.0	1852.0	1554.0	1068.0	1554.0	1852.0
75°	754.0	1274.0	1595.0	1773.0	1832.0	1773.0	1595.0	1274.0	754.0	1274.0	1595.0
80°	442.0	963.0	1358.0	1624.0	1716.0	1624.0	1358.0	963.0	442.0	963.0	1358.0
85°	159.0	677.0	1235.0	1565.0	1678.0	1565.0	1235.0	677.0	159.0	677.0	1235.0
90°	0.0	579.0	1239.0	1603.0	1728.0	1603.0	1239.0	579.0	0.0	579.0	1239.0
95°	0.0	578.0	1263.0	1628.0	1752.0	1628.0	1263.0	578.0	0.0	578.0	1263.0
100°	0.0	501.0	1192.0	1566.0	1694.0	1566.0	1192.0	501.0	0.0	501.0	1192.0
105°	0.0	405.0	1089.0	1475.0	1608.0	1475.0	1089.0	405.0	0.0	405.0	1089.0
110°	0.0	267.0	940.0	1352.0	1484.0	1352.0	940.0	267.0	0.0	267.0	940.0
115°	0.0	143.0	780.0	1191.0	1330.0	1191.0	780.0	143.0	0.0	143.0	780.0
120°	0.0	50.0	599.0	1004.0	1148.0	1004.0	599.0	50.0	0.0	50.0	599.0
125°	0.0	0.0	413.0	833.0	940.0	833.0	413.0	0.0	0.0	413.0	833.0
130°	0.0	0.0	250.0	575.0	712.0	575.0	250.0	0.0	0.0	250.0	575.0
135°	0.0	0.0	115.0	376.0	481.0	376.0	115.0	0.0	0.0	115.0	376.0
140°	0.0	0.0	31.0	209.0	287.0	209.0	31.0	0.0	0.0	31.0	209.0
145°	0.0	0.0	0.0	69.0	125.0	69.0	0.0	0.0	0.0	69.0	125.0
150°	0.0	0.0	0.0	0.0	26.0	0.0	0.0	0.0	0.0	0.0	26.0
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°	3105.1	3105.1	3105.1	3105.1	3105.1	3105.1
5°	3130.0	3111.0	3130.0	3120.0	3098.0	3077.0
10°	3136.0	3126.0	3136.0	3115.0	3080.0	3053.0
15°	3144.0	3141.0	3144.0	3103.0	3048.0	3009.0
20°	3147.0	3156.0	3147.0	3084.0	3000.0	2949.0
25°	3148.0	3167.0	3148.0	3056.0	2937.0	2868.0
30°	3142.0	3169.0	3142.0	3019.0	2858.0	2767.0
35°	3109.0	3130.0	3109.0	2973.0	2763.0	2643.0
40°	3039.0	3061.0	3039.0	2911.0	2650.0	2496.0
45°	2939.0	2954.0	2939.0	2813.0	2522.0	2324.0
50°	2799.0	2810.0	2799.0	2686.0	2376.0	2125.0
55°	2624.0	2632.0	2624.0	2529.0	2213.0	1901.0
60°	2421.0	2430.0	2421.0	2334.0	2024.0	1649.0
65°	2200.0	2220.0	2200.0	2105.0	1801.0	1369.0
70°	1980.0	2016.0	1980.0	1852.0	1554.0	1068.0
75°	1773.0	1832.0	1773.0	1595.0	1274.0	754.0
80°	1624.0	1716.0	1624.0	1358.0	963.0	442.0
85°	1565.0	1678.0	1565.0	1235.0	677.0	159.0
90°	1603.0	1728.0	1603.0	1239.0	579.0	0.0
95°	1628.0	1752.0	1628.0	1263.0	578.0	0.0
100°	1566.0	1694.0	1566.0	1192.0	501.0	0.0
105°	1475.0	1608.0	1475.0	1089.0	405.0	0.0
110°	1352.0	1484.0	1352.0	940.0	267.0	0.0
115°	1191.0	1330.0	1191.0	780.0	143.0	0.0
120°	1004.0	1148.0	1004.0	599.0	50.0	0.0
125°	833.0	940.0	833.0	413.0	0.0	0.0
130°	575.0	712.0	575.0	250.0	0.0	0.0
135°	376.0	481.0	376.0	115.0	0.0	0.0
140°	209.0	287.0	209.0	31.0	0.0	0.0
145°	69.0	125.0	69.0	0.0	0.0	0.0
150°	0.0	26.0	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

(END OF REPORT)