

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P557119

Luminaire Tested: **FUSL-12-4-LD4-2HI-50-UNV-80-97-EDD**

Issue Date: 7/16/2021

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-79-08
Report Number: P557119
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-257-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUSL-12-4-LD4-2HI-50-UNV-80-97-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

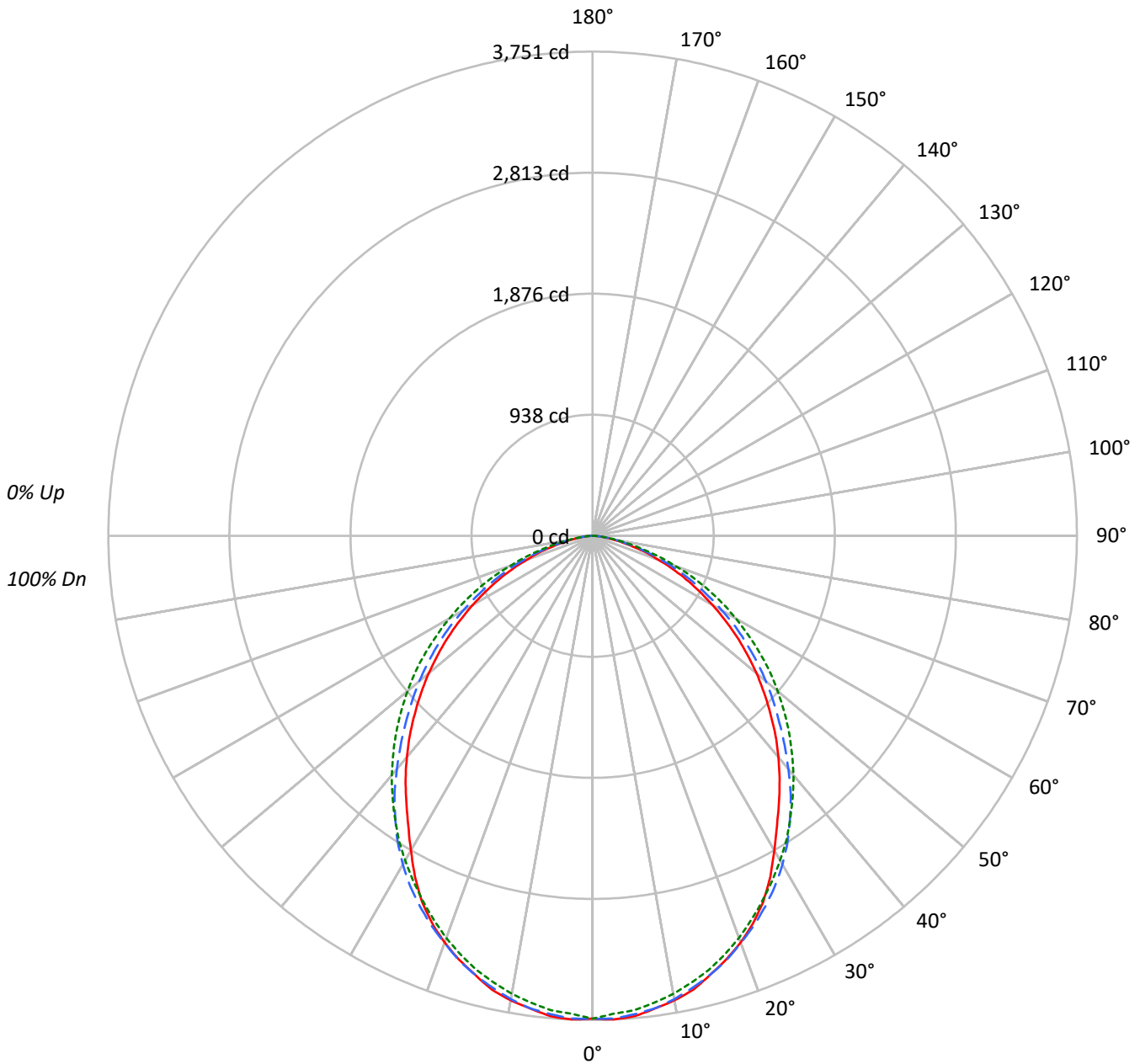
Lumens per Lamp: N/A
Luminaire Lumens: 8650.0 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63																			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47																			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42																			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37																			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34																			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30																			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10067	10067	10067
5°	10094	10051	9965
10°	9986	9959	9845
15°	9809	9809	9697
20°	9602	9614	9491
25°	9285	9400	9251
30°	8744	9137	9025
35°	8262	8758	8772
40°	7860	8285	8502
45°	7411	7783	8182
50°	6937	7334	7834
55°	6399	6823	7410
60°	5762	6226	6892
65°	5088	5536	6268
70°	4240	4715	5326
75°	3332	3766	4169
80°	2383	2650	2940
85°	1553	1553	1463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.2	4.1
10°-20°	989.5	11.4
20°-30°	1445.9	16.7
30°-40°	1641.3	19.0
40°-50°	1584.4	18.3
50°-60°	1307.1	15.1
60°-70°	870.4	10.1
70°-80°	389.5	4.5
80°-90°	69.7	0.8
90°-100°	0.0	0.0
100°-110°	0.0	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°	2787.6	32.2
0°-40°	4429.0	51.2
0°-60°	7320.4	84.6
0°-90°	8650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8650.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3741	3741	3741	3741	3741	
5°	3737	3735	3721	3701	3689	354
15°	3521	3530	3521	3505	3481	993
25°	3127	3152	3166	3143	3116	1432
35°	2515	2550	2666	2680	2670	1576
45°	1947	1980	2045	2138	2150	1502
55°	1364	1387	1454	1535	1579	1217
65°	799	821	870	931	984	792
75°	320	338	362	379	401	350
85°	50	50	50	47	47	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3740.9	3740.9	3740.9	3740.9	3740.9
2.5°	3751.0	3752.4	3743.8	3720.8	3706.4
5°	3736.6	3735.2	3720.8	3700.7	3689.2
7.5°	3694.9	3697.8	3693.5	3664.7	3648.9
10°	3654.7	3656.1	3644.6	3621.6	3602.9
12.5°	3602.9	3601.5	3585.7	3574.2	3544.0
15°	3521.0	3529.6	3521.0	3505.2	3480.8
17.5°	3442.0	3442.0	3447.7	3420.4	3401.7
20°	3352.9	3357.2	3357.2	3335.6	3314.1
22.5°	3249.4	3262.3	3266.6	3243.6	3217.8
25°	3127.2	3151.7	3166.0	3143.0	3115.7
27.5°	2979.2	3016.6	3059.7	3042.4	3012.3
30°	2813.9	2868.6	2940.4	2926.0	2904.5
32.5°	2657.3	2711.9	2811.1	2805.3	2793.8
35°	2515.0	2549.5	2665.9	2680.3	2670.2
37.5°	2379.9	2411.5	2520.8	2553.8	2545.2
40°	2237.6	2272.1	2358.4	2417.3	2420.2
42.5°	2096.8	2129.9	2200.3	2285.1	2285.1
45°	1947.3	1980.4	2045.1	2138.5	2150.0
47.5°	1800.7	1835.2	1898.5	1991.9	2010.6
50°	1657.0	1688.7	1751.9	1842.4	1871.2
52.5°	1507.6	1542.1	1603.9	1687.2	1728.9
55°	1363.9	1386.8	1454.4	1534.9	1579.4
57.5°	1214.4	1235.9	1312.1	1381.1	1427.1
60°	1070.7	1098.0	1156.9	1227.3	1280.5
62.5°	932.7	961.5	1011.8	1073.6	1133.9
65°	799.1	820.6	869.5	931.3	984.4
67.5°	669.7	688.4	737.3	780.4	836.4
70°	538.9	563.4	599.3	641.0	676.9
72.5°	434.0	444.1	474.3	504.4	541.8
75°	320.5	337.7	362.2	379.4	401.0
77.5°	229.9	240.0	254.4	268.7	288.9
80°	153.8	158.1	171.0	173.9	189.7
82.5°	93.4	96.3	99.2	100.6	106.3
85°	50.3	50.3	50.3	47.4	47.4
87.5°	28.7	28.7	24.4	20.1	14.4
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)