

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: P555583

Luminaire Tested: **FUSL-12-2-LD4-3HI-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: P555583
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-12-2-LD4-3HI-50-UNV-80-97-EDD
Description: 2FT 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

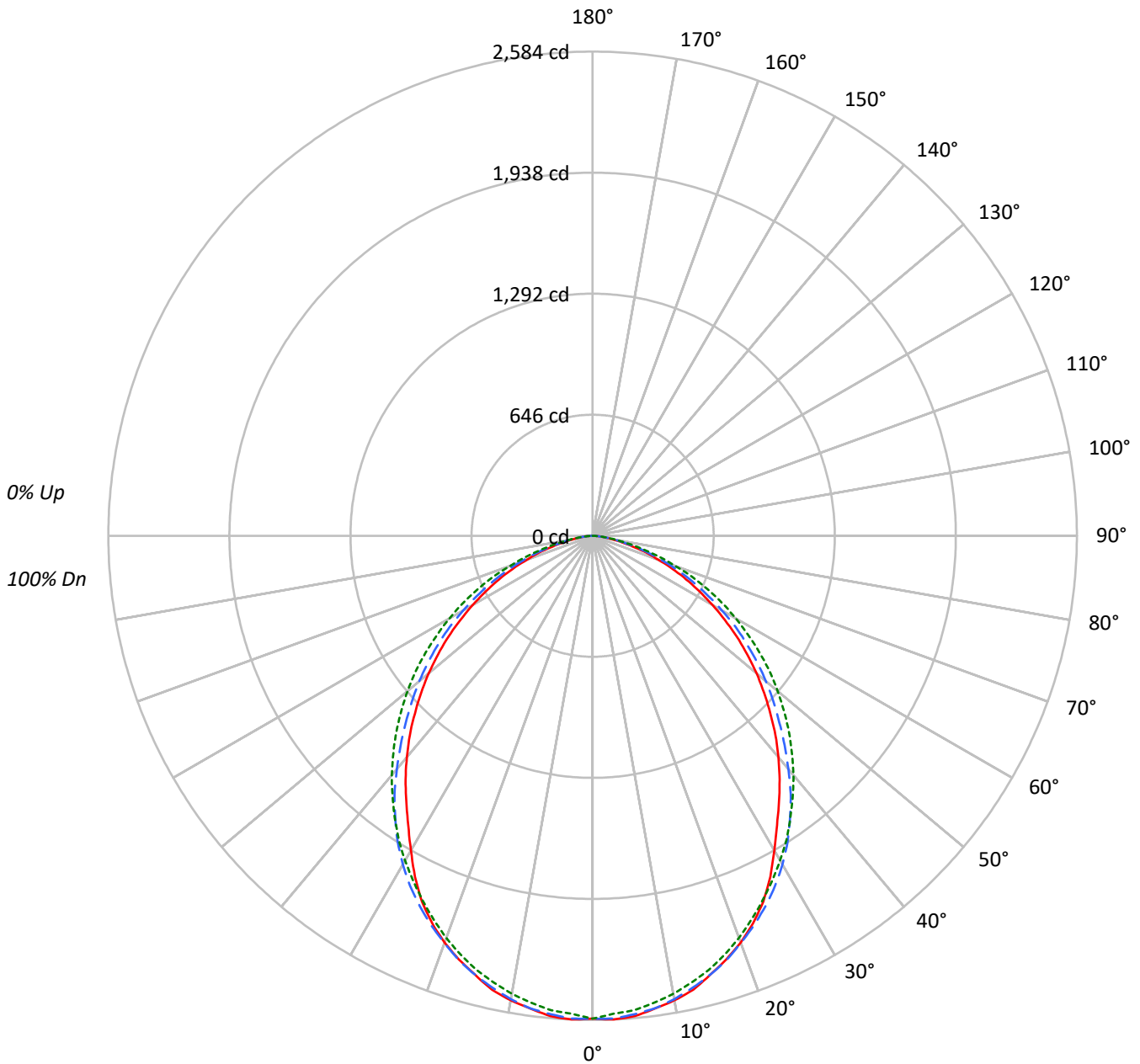
Lumens per Lamp: N/A
Luminaire Lumens: 5959.0 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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°	13870	13870	13870
5°	13907	13848	13730
10°	13759	13721	13565
15°	13515	13515	13361
20°	13229	13246	13076
25°	12794	12952	12746
30°	12047	12589	12435
35°	11383	12067	12086
40°	10830	11415	11714
45°	10210	10723	11273
50°	9558	10105	10793
55°	8816	9401	10210
60°	7939	8579	9495
65°	7011	7628	8637
70°	5843	6497	7338
75°	4591	5188	5743
80°	3282	3651	4051
85°	2143	2143	2019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.6	4.1
10°-20°	681.7	11.4
20°-30°	996.1	16.7
30°-40°	1130.7	19.0
40°-50°	1091.5	18.3
50°-60°	900.4	15.1
60°-70°	599.6	10.1
70°-80°	268.3	4.5
80°-90°	48.0	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°	1920.4	32.2
0°-40°	3051.1	51.2
0°-60°	5043.1	84.6
0°-90°	5959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5959.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2577	2577	2577	2577	2577	
5°	2574	2573	2563	2549	2542	244
15°	2426	2432	2426	2415	2398	684
25°	2154	2171	2181	2165	2146	987
35°	1733	1756	1837	1846	1840	1086
45°	1342	1364	1409	1473	1481	1035
55°	940	955	1002	1057	1088	839
65°	550	565	599	642	678	546
75°	221	233	250	261	276	241
85°	35	35	35	33	33	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2577.1	2577.1	2577.1	2577.1	2577.1
2.5°	2584.0	2585.0	2579.1	2563.3	2553.4
5°	2574.1	2573.2	2563.3	2549.4	2541.5
7.5°	2545.4	2547.4	2544.4	2524.6	2513.8
10°	2517.7	2518.7	2510.8	2494.9	2482.1
12.5°	2482.1	2481.1	2470.2	2462.3	2441.5
15°	2425.6	2431.6	2425.6	2414.7	2397.9
17.5°	2371.2	2371.2	2375.1	2356.3	2343.5
20°	2309.8	2312.8	2312.8	2297.9	2283.1
22.5°	2238.5	2247.4	2250.4	2234.6	2216.7
25°	2154.4	2171.2	2181.1	2165.3	2146.4
27.5°	2052.4	2078.1	2107.8	2095.9	2075.2
30°	1938.5	1976.2	2025.7	2015.8	2000.9
32.5°	1830.6	1868.2	1936.5	1932.6	1924.7
35°	1732.6	1756.4	1836.6	1846.5	1839.5
37.5°	1639.5	1661.3	1736.6	1759.3	1753.4
40°	1541.5	1565.3	1624.7	1665.3	1667.3
42.5°	1444.5	1467.3	1515.8	1574.2	1574.2
45°	1341.5	1364.3	1408.8	1473.2	1481.1
47.5°	1240.5	1264.3	1307.9	1372.2	1385.1
50°	1141.5	1163.3	1206.9	1269.3	1289.1
52.5°	1038.6	1062.3	1104.9	1162.3	1191.0
55°	939.6	955.4	1001.9	1057.4	1088.1
57.5°	836.6	851.4	903.9	951.4	983.1
60°	737.6	756.4	797.0	845.5	882.1
62.5°	642.5	662.3	697.0	739.6	781.2
65°	550.5	565.3	599.0	641.6	678.2
67.5°	461.4	474.2	507.9	537.6	576.2
70°	371.3	388.1	412.9	441.6	466.3
72.5°	299.0	305.9	326.7	347.5	373.3
75°	220.8	232.7	249.5	261.4	276.2
77.5°	158.4	165.3	175.2	185.1	199.0
80°	105.9	108.9	117.8	119.8	130.7
82.5°	64.4	66.3	68.3	69.3	73.3
85°	34.7	34.7	34.7	32.7	32.7
87.5°	19.8	19.8	16.8	13.9	9.9
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)