

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: P557618

Luminaire Tested: **FUSL-12-4-LD4-2STD-50-UNV-80-85-EDD-90**

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: P557618
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-LD4-2STD-50-UNV-80-85-EDD-90
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

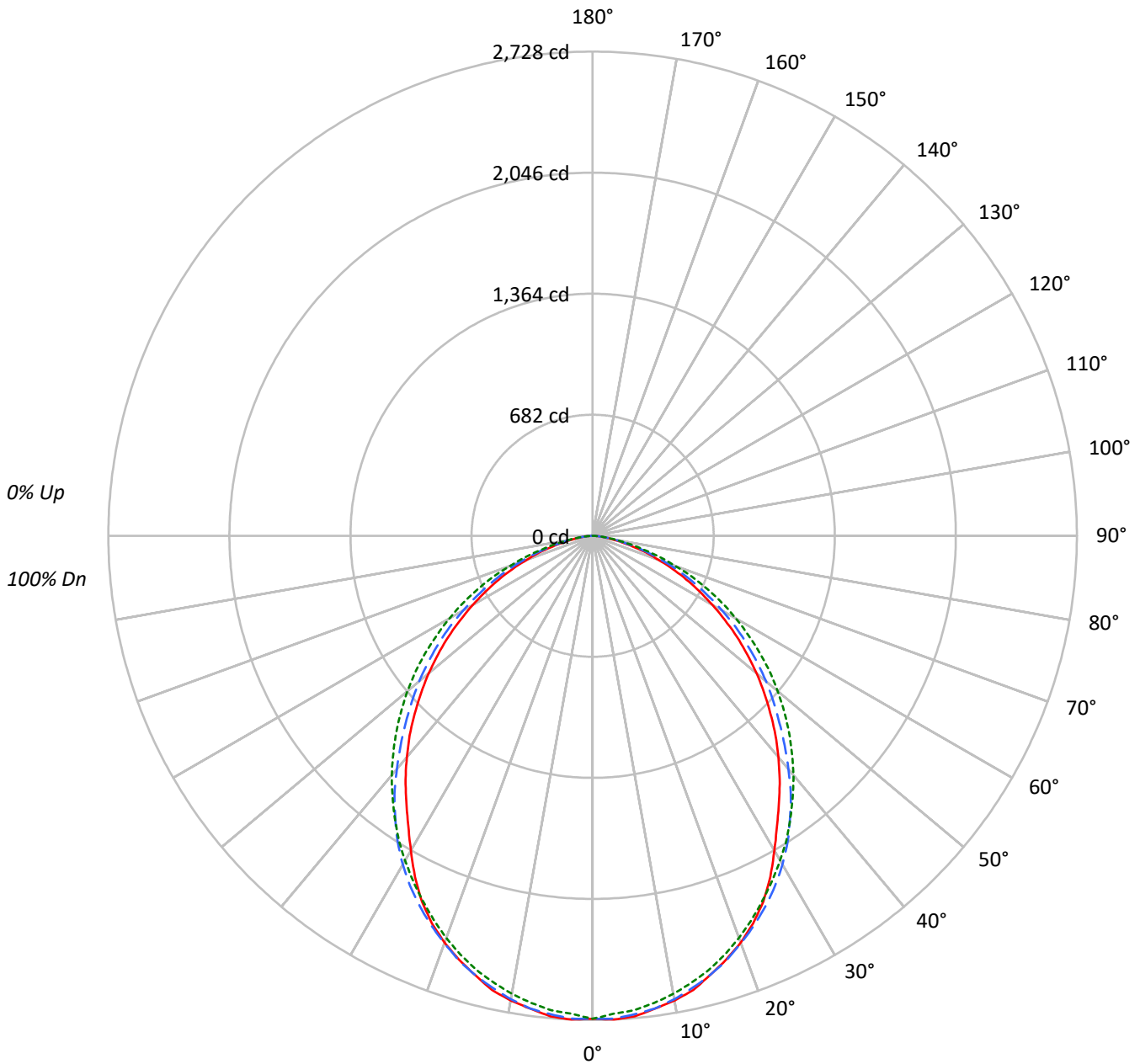
Lumens per Lamp: N/A
Luminaire Lumens: 6292.0 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (Ain): 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°	7322	7322	7322
5°	7342	7311	7249
10°	7264	7244	7161
15°	7135	7135	7054
20°	6984	6993	6903
25°	6754	6838	6729
30°	6360	6646	6565
35°	6010	6370	6381
40°	5718	6026	6184
45°	5391	5661	5952
50°	5046	5335	5698
55°	4655	4963	5390
60°	4191	4529	5013
65°	3701	4027	4560
70°	3084	3430	3874
75°	2424	2739	3033
80°	1734	1928	2139
85°	1130	1130	1065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.2	4.1
10°-20°	719.7	11.4
20°-30°	1051.8	16.7
30°-40°	1193.9	19.0
40°-50°	1152.5	18.3
50°-60°	950.7	15.1
60°-70°	633.1	10.1
70°-80°	283.3	4.5
80°-90°	50.7	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°	2027.7	32.2
0°-40°	3221.6	51.2
0°-60°	5324.9	84.6
0°-90°	6292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6292.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2721	2721	2721	2721	2721	
5°	2718	2717	2706	2692	2684	257
15°	2561	2568	2561	2550	2532	722
25°	2275	2292	2303	2286	2266	1042
35°	1829	1854	1939	1950	1942	1146
45°	1416	1440	1488	1556	1564	1093
55°	992	1009	1058	1116	1149	885
65°	581	597	632	677	716	576
75°	233	246	263	276	292	255
85°	37	37	37	34	34	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2721.1	2721.1	2721.1	2721.1	2721.1
2.5°	2728.4	2729.5	2723.2	2706.5	2696.0
5°	2718.0	2716.9	2706.5	2691.9	2683.5
7.5°	2687.7	2689.8	2686.6	2665.7	2654.2
10°	2658.4	2659.5	2651.1	2634.4	2620.8
12.5°	2620.8	2619.7	2608.2	2599.9	2577.9
15°	2561.2	2567.5	2561.2	2549.7	2531.9
17.5°	2503.7	2503.7	2507.9	2488.0	2474.4
20°	2438.9	2442.0	2442.0	2426.3	2410.6
22.5°	2363.6	2373.0	2376.2	2359.4	2340.6
25°	2274.7	2292.5	2303.0	2286.2	2266.4
27.5°	2167.1	2194.3	2225.6	2213.1	2191.1
30°	2046.9	2086.6	2138.9	2128.4	2112.7
32.5°	1932.9	1972.6	2044.8	2040.6	2032.2
35°	1829.4	1854.5	1939.2	1949.6	1942.3
37.5°	1731.2	1754.1	1833.6	1857.6	1851.4
40°	1627.7	1652.7	1715.5	1758.3	1760.4
42.5°	1525.2	1549.3	1600.5	1662.2	1662.2
45°	1416.5	1440.5	1487.6	1555.5	1563.9
47.5°	1309.9	1335.0	1380.9	1448.9	1462.5
50°	1205.3	1228.3	1274.3	1340.2	1361.1
52.5°	1096.6	1121.7	1166.6	1227.3	1257.6
55°	992.1	1008.8	1057.9	1116.5	1148.9
57.5°	883.3	899.0	954.4	1004.6	1038.1
60°	778.8	798.7	841.5	892.8	931.4
62.5°	678.5	699.4	735.9	780.9	824.8
65°	581.2	596.9	632.5	677.4	716.1
67.5°	487.1	500.7	536.3	567.6	608.4
70°	392.0	409.8	435.9	466.2	492.4
72.5°	315.7	323.0	345.0	366.9	394.1
75°	233.1	245.7	263.4	276.0	291.7
77.5°	167.3	174.6	185.0	195.5	210.1
80°	111.9	115.0	124.4	126.5	138.0
82.5°	67.9	70.0	72.1	73.2	77.4
85°	36.6	36.6	36.6	34.5	34.5
87.5°	20.9	20.9	17.8	14.6	10.5
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)