

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: P557435

Luminaire Tested: **FUSL-12-4-LD4-2STD-30-UNV-80-94-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: P557435
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-30-UNV-80-94-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

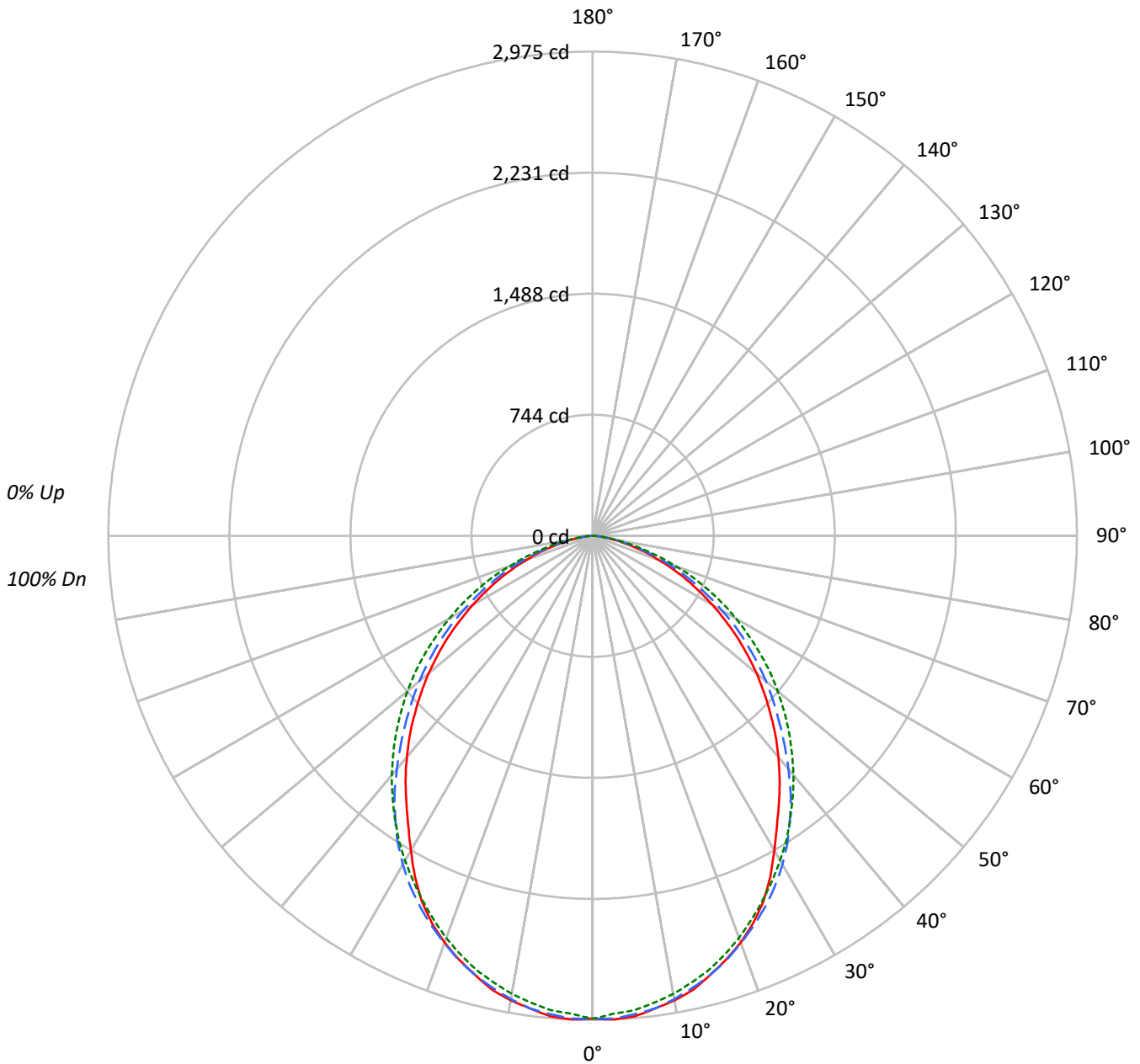
Lumens per Lamp: N/A
Luminaire Lumens: 6861.0 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (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°	7985	7985	7985
5°	8006	7972	7904
10°	7921	7899	7809
15°	7780	7780	7692
20°	7616	7625	7527
25°	7365	7456	7338
30°	6935	7247	7159
35°	6553	6946	6958
40°	6235	6571	6743
45°	5878	6173	6490
50°	5502	5817	6213
55°	5075	5412	5878
60°	4570	4938	5466
65°	4036	4392	4972
70°	3364	3740	4224
75°	2643	2987	3306
80°	1891	2103	2332
85°	1232	1232	1161



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.4	4.1
10°-20°	784.8	11.4
20°-30°	1146.9	16.7
30°-40°	1301.9	19.0
40°-50°	1256.7	18.3
50°-60°	1036.7	15.1
60°-70°	690.4	10.1
70°-80°	308.9	4.5
80°-90°	55.3	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°	2211.1	32.2
0°-40°	3513.0	51.2
0°-60°	5806.4	84.6
0°-90°	6861.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6861.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2967	2967	2967	2967	2967	
5°	2964	2963	2951	2935	2926	281
15°	2793	2800	2793	2780	2761	787
25°	2480	2500	2511	2493	2471	1136
35°	1995	2022	2114	2126	2118	1250
45°	1545	1571	1622	1696	1705	1192
55°	1082	1100	1154	1217	1253	966
65°	634	651	690	739	781	628
75°	254	268	287	301	318	278
85°	40	40	40	38	38	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2967.2	2967.2	2967.2	2967.2	2967.2
2.5°	2975.2	2976.3	2969.5	2951.2	2939.8
5°	2963.8	2962.6	2951.2	2935.3	2926.2
7.5°	2930.7	2933.0	2929.6	2906.8	2894.3
10°	2898.8	2900.0	2890.8	2872.6	2857.8
12.5°	2857.8	2856.6	2844.1	2835.0	2811.0
15°	2792.8	2799.6	2792.8	2780.3	2760.9
17.5°	2730.1	2730.1	2734.7	2713.0	2698.2
20°	2659.4	2662.8	2662.8	2645.7	2628.6
22.5°	2577.4	2587.6	2591.0	2572.8	2552.3
25°	2480.5	2499.8	2511.2	2493.0	2471.3
27.5°	2363.0	2392.7	2426.9	2413.2	2389.3
30°	2232.0	2275.3	2332.3	2320.9	2303.8
32.5°	2107.7	2151.0	2229.7	2225.1	2216.0
35°	1994.9	2022.2	2114.5	2125.9	2118.0
37.5°	1887.7	1912.8	1999.4	2025.6	2018.8
40°	1774.9	1802.2	1870.6	1917.3	1919.6
42.5°	1663.1	1689.4	1745.2	1812.5	1812.5
45°	1544.6	1570.8	1622.1	1696.2	1705.3
47.5°	1428.3	1455.7	1505.8	1579.9	1594.7
50°	1314.3	1339.4	1389.6	1461.4	1484.2
52.5°	1195.8	1223.1	1272.1	1338.3	1371.3
55°	1081.8	1100.0	1153.6	1217.4	1252.8
57.5°	963.2	980.3	1040.7	1095.5	1131.9
60°	849.2	870.9	917.6	973.5	1015.7
62.5°	739.8	762.6	802.5	851.5	899.4
65°	633.8	650.9	689.7	738.7	780.8
67.5°	531.2	546.0	584.8	619.0	663.4
70°	427.5	446.8	475.3	508.4	536.9
72.5°	344.3	352.2	376.2	400.1	429.7
75°	254.2	267.9	287.3	300.9	318.0
77.5°	182.4	190.4	201.8	213.2	229.1
80°	122.0	125.4	135.7	137.9	150.5
82.5°	74.1	76.4	78.7	79.8	84.4
85°	39.9	39.9	39.9	37.6	37.6
87.5°	22.8	22.8	19.4	16.0	11.4
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)