

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: P557439

Luminaire Tested: **FUSL-12-4-LD4-2STD-30-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: P557439
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-80-97-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

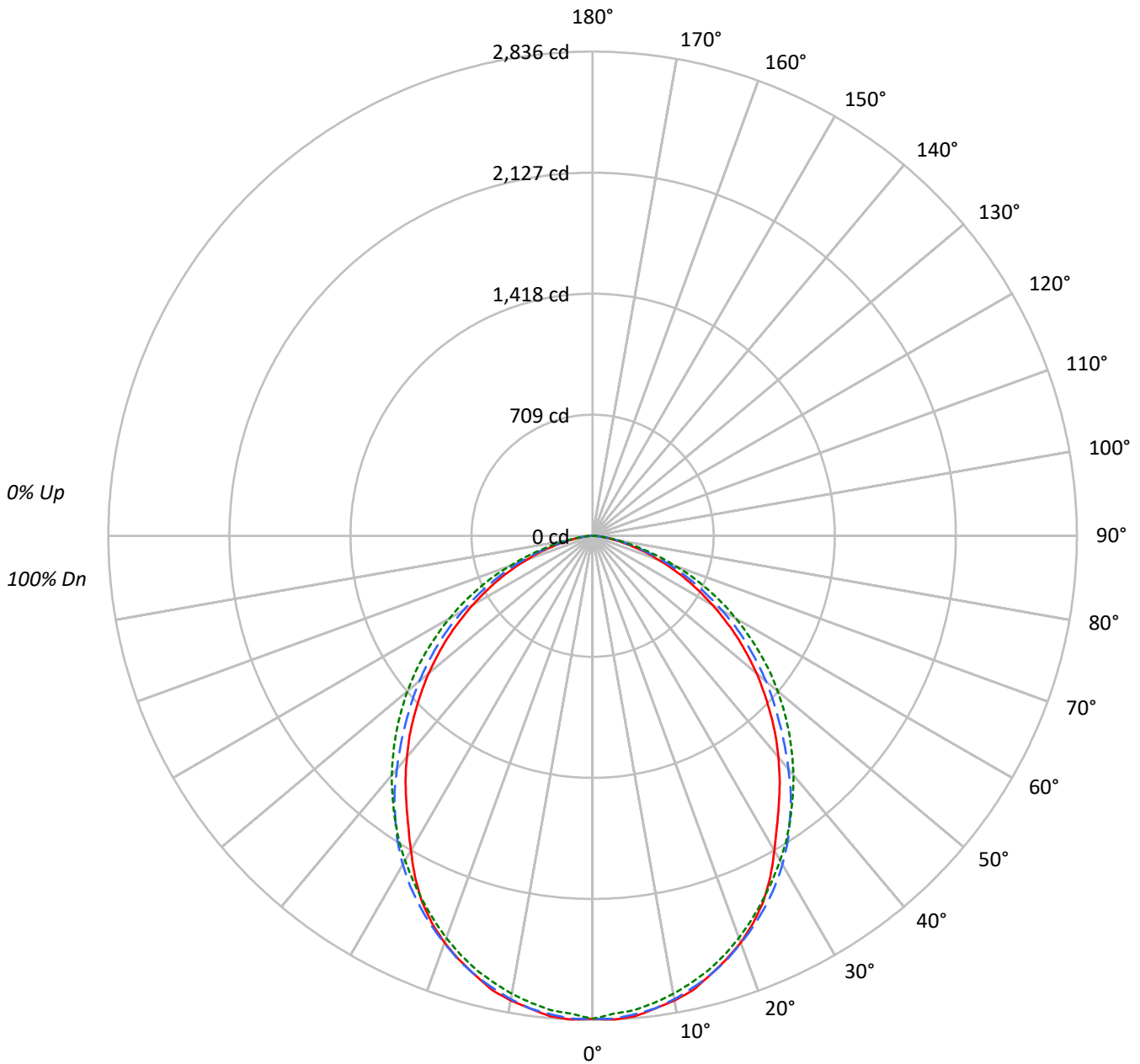
Lumens per Lamp: N/A
Luminaire Lumens: 6541.0 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P557439

CATALOG NUMBER: FUSL-12-4-LD4-2STD-30-UNV-80-97-EDD

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°	7612	7612	7612
5°	7633	7600	7536
10°	7552	7531	7445
15°	7417	7417	7333
20°	7261	7270	7176
25°	7021	7108	6996
30°	6612	6909	6825
35°	6248	6622	6633
40°	5944	6265	6429
45°	5604	5885	6187
50°	5246	5546	5924
55°	4838	5160	5603
60°	4357	4708	5211
65°	3847	4187	4740
70°	3206	3566	4028
75°	2519	2848	3152
80°	1802	2004	2224
85°	1173	1173	1108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.3	4.1
10°-20°	748.2	11.4
20°-30°	1093.4	16.7
30°-40°	1241.1	19.0
40°-50°	1198.1	18.3
50°-60°	988.4	15.1
60°-70°	658.2	10.1
70°-80°	294.5	4.5
80°-90°	52.7	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°	2108.0	32.2
0°-40°	3349.1	51.2
0°-60°	5535.6	84.6
0°-90°	6541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6541.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2829	2829	2829	2829	2829	
5°	2826	2824	2814	2798	2790	267
15°	2662	2669	2662	2651	2632	751
25°	2365	2383	2394	2377	2356	1083
35°	1902	1928	2016	2027	2019	1192
45°	1472	1498	1546	1617	1626	1136
55°	1031	1049	1100	1161	1194	920
65°	604	620	658	704	744	599
75°	242	255	274	287	303	265
85°	38	38	38	36	36	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2828.8	2828.8	2828.8	2828.8	2828.8
2.5°	2836.4	2837.5	2831.0	2813.6	2802.7
5°	2825.6	2824.5	2813.6	2798.4	2789.7
7.5°	2794.0	2796.2	2793.0	2771.2	2759.3
10°	2763.6	2764.7	2756.0	2738.6	2724.5
12.5°	2724.5	2723.4	2711.4	2702.8	2679.9
15°	2662.5	2669.1	2662.5	2650.6	2632.1
17.5°	2602.8	2602.8	2607.1	2586.5	2572.3
20°	2535.4	2538.7	2538.7	2522.3	2506.0
22.5°	2457.1	2466.9	2470.2	2452.8	2433.2
25°	2364.8	2383.2	2394.1	2376.7	2356.1
27.5°	2252.8	2281.1	2313.7	2300.7	2277.8
30°	2127.9	2169.2	2223.5	2212.6	2196.3
32.5°	2009.4	2050.7	2125.7	2121.3	2112.6
35°	1901.8	1927.9	2015.9	2026.8	2019.2
37.5°	1799.7	1823.6	1906.2	1931.2	1924.6
40°	1692.1	1718.2	1783.4	1827.9	1830.1
42.5°	1585.6	1610.6	1663.8	1727.9	1727.9
45°	1472.5	1497.5	1546.4	1617.1	1625.8
47.5°	1361.7	1387.8	1435.6	1506.2	1520.4
50°	1253.0	1276.9	1324.7	1393.2	1415.0
52.5°	1140.0	1166.1	1212.8	1275.8	1307.4
55°	1031.3	1048.7	1099.8	1160.7	1194.3
57.5°	918.3	934.6	992.2	1044.4	1079.1
60°	809.6	830.3	874.8	928.1	968.3
62.5°	705.3	727.0	765.1	811.8	857.4
65°	604.2	620.5	657.5	704.2	744.4
67.5°	506.4	520.6	557.5	590.1	632.5
70°	407.5	426.0	453.2	484.7	511.9
72.5°	328.2	335.8	358.6	381.4	409.7
75°	242.3	255.4	273.9	286.9	303.2
77.5°	173.9	181.5	192.4	203.2	218.4
80°	116.3	119.5	129.3	131.5	143.5
82.5°	70.6	72.8	75.0	76.1	80.4
85°	38.0	38.0	38.0	35.9	35.9
87.5°	21.7	21.7	18.5	15.2	10.9
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)