

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: P557625

Luminaire Tested: **FUSL-12-4-LD4-2STD-50-UNV-80-88-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: P557625
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-80-88-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

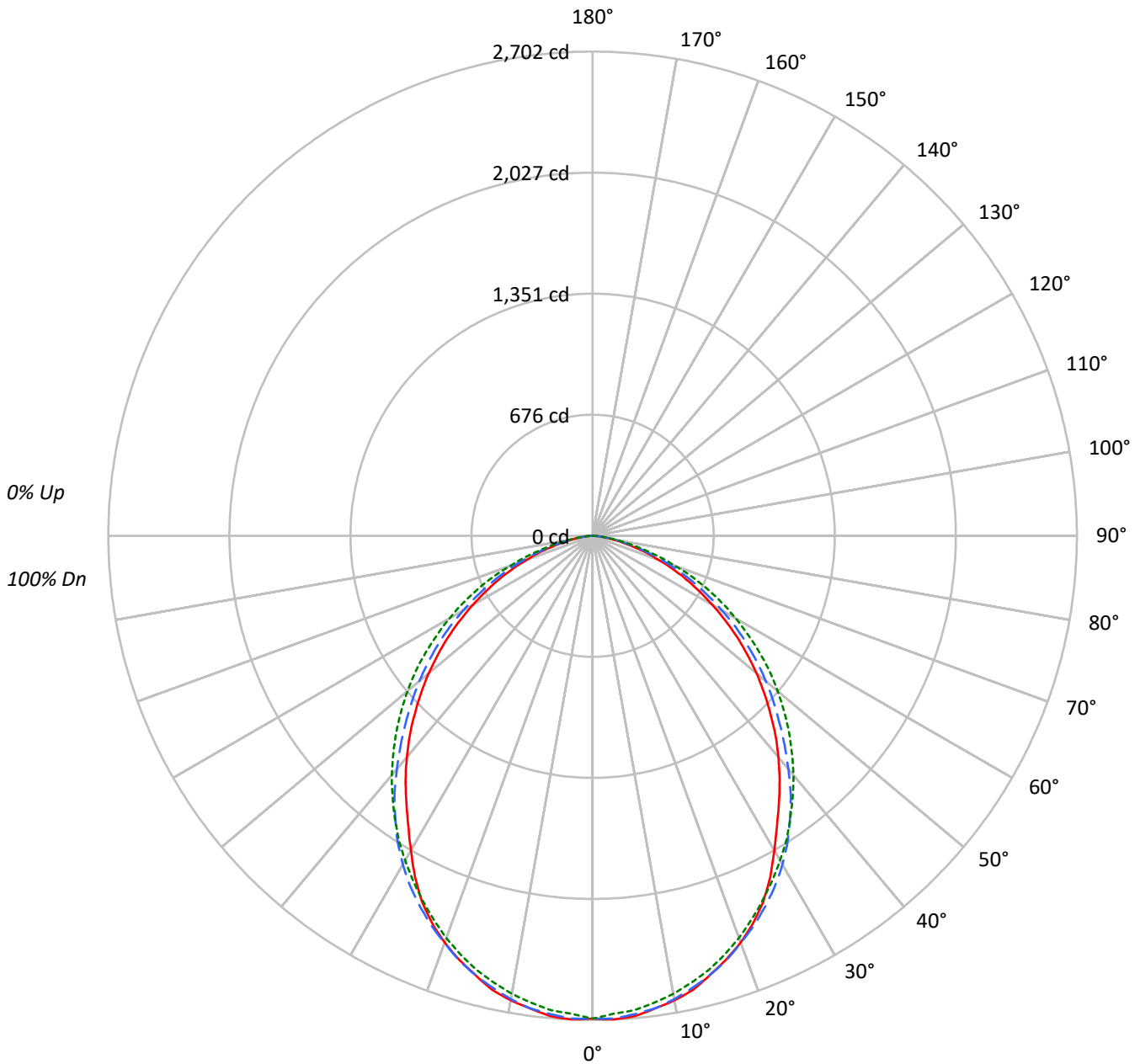
Lumens per Lamp: N/A
Luminaire Lumens: 6231.0 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	7251	7251	7251
5°	7271	7240	7179
10°	7194	7174	7092
15°	7066	7066	6985
20°	6916	6925	6836
25°	6689	6771	6664
30°	6298	6582	6501
35°	5952	6309	6319
40°	5662	5968	6124
45°	5339	5606	5894
50°	4997	5283	5643
55°	4609	4915	5338
60°	4151	4485	4964
65°	3665	3988	4515
70°	3054	3397	3836
75°	2401	2713	3003
80°	1717	1909	2118
85°	1118	1118	1056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.7	4.1
10°-20°	712.8	11.4
20°-30°	1041.6	16.7
30°-40°	1182.3	19.0
40°-50°	1141.3	18.3
50°-60°	941.5	15.1
60°-70°	627.0	10.1
70°-80°	280.6	4.5
80°-90°	50.2	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°	2008.1	32.2
0°-40°	3190.4	51.2
0°-60°	5273.3	84.6
0°-90°	6231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6231.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2695	2695	2695	2695	2695	
5°	2692	2691	2680	2666	2658	255
15°	2536	2543	2536	2525	2507	715
25°	2253	2270	2281	2264	2244	1032
35°	1812	1836	1920	1931	1924	1135
45°	1403	1427	1473	1540	1549	1082
55°	982	999	1048	1106	1138	877
65°	576	591	626	671	709	571
75°	231	243	261	273	289	252
85°	36	36	36	34	34	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2694.7	2694.7	2694.7	2694.7	2694.7
2.5°	2702.0	2703.0	2696.8	2680.3	2669.9
5°	2691.6	2690.6	2680.3	2665.8	2657.5
7.5°	2661.6	2663.7	2660.6	2639.9	2628.5
10°	2632.6	2633.7	2625.4	2608.8	2595.4
12.5°	2595.4	2594.3	2582.9	2574.7	2552.9
15°	2536.4	2542.6	2536.4	2525.0	2507.4
17.5°	2479.4	2479.4	2483.6	2463.9	2450.4
20°	2415.2	2418.3	2418.3	2402.8	2387.3
22.5°	2340.7	2350.0	2353.1	2336.6	2317.9
25°	2252.7	2270.3	2280.6	2264.1	2244.4
27.5°	2146.1	2173.0	2204.0	2191.6	2169.9
30°	2027.0	2066.4	2118.1	2107.8	2092.2
32.5°	1914.2	1953.5	2024.9	2020.8	2012.5
35°	1811.7	1836.5	1920.4	1930.7	1923.5
37.5°	1714.4	1737.1	1815.8	1839.6	1833.4
40°	1611.9	1636.7	1698.8	1741.3	1743.4
42.5°	1510.4	1534.2	1585.0	1646.0	1646.0
45°	1402.8	1426.6	1473.2	1540.4	1548.7
47.5°	1297.2	1322.0	1367.6	1434.9	1448.3
50°	1193.6	1216.4	1262.0	1327.2	1347.9
52.5°	1086.0	1110.8	1155.3	1215.4	1245.4
55°	982.4	999.0	1047.7	1105.6	1137.7
57.5°	874.8	890.3	945.2	994.9	1028.0
60°	771.3	790.9	833.4	884.1	922.4
62.5°	671.9	692.6	728.8	773.3	816.8
65°	575.6	591.1	626.3	670.8	709.1
67.5°	482.4	495.9	531.1	562.1	602.5
70°	388.2	405.8	431.7	461.7	487.6
72.5°	312.6	319.9	341.6	363.4	390.3
75°	230.9	243.3	260.9	273.3	288.8
77.5°	165.6	172.9	183.2	193.6	208.1
80°	110.8	113.9	123.2	125.3	136.7
82.5°	67.3	69.4	71.4	72.5	76.6
85°	36.2	36.2	36.2	34.2	34.2
87.5°	20.7	20.7	17.6	14.5	10.4
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)