

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: P557620

Luminaire Tested: **FUSL-12-4-LD4-2STD-50-UNV-80-86-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: P557620
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-80-86-EDD-90
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

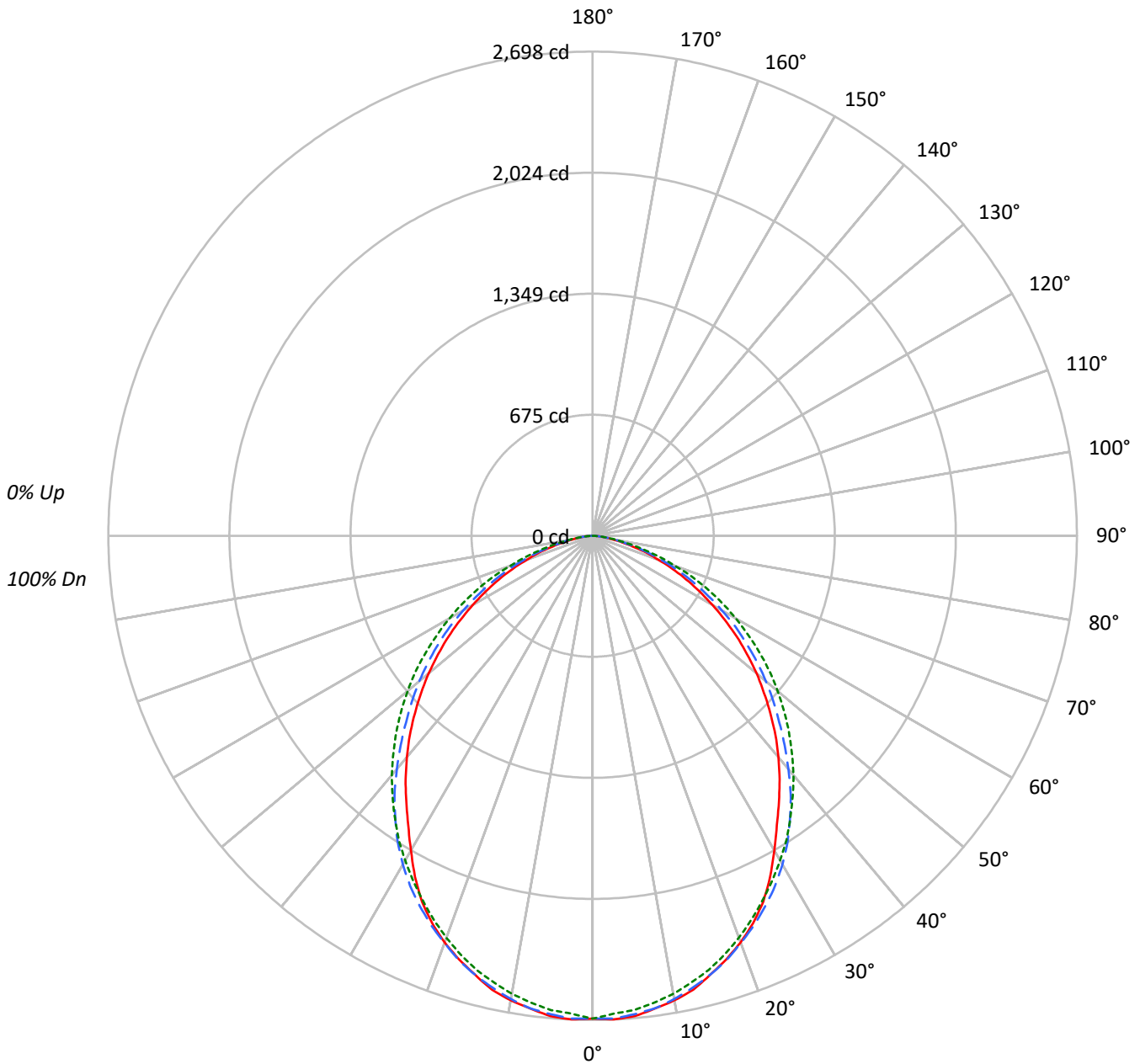
Lumens per Lamp: N/A
Luminaire Lumens: 6221.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	7240	7240	7240
5°	7259	7229	7167
10°	7182	7162	7080
15°	7055	7055	6974
20°	6905	6914	6825
25°	6678	6761	6653
30°	6289	6571	6491
35°	5942	6298	6309
40°	5653	5958	6114
45°	5330	5597	5884
50°	4989	5274	5634
55°	4602	4907	5329
60°	4144	4478	4956
65°	3659	3982	4508
70°	3050	3391	3830
75°	2397	2708	2999
80°	1714	1906	2114
85°	1118	1118	1053



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.3	4.1
10°-20°	711.6	11.4
20°-30°	1039.9	16.7
30°-40°	1180.4	19.0
40°-50°	1139.5	18.3
50°-60°	940.0	15.1
60°-70°	626.0	10.1
70°-80°	280.1	4.5
80°-90°	50.1	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°	2004.9	32.2
0°-40°	3185.3	51.2
0°-60°	5264.8	84.6
0°-90°	6221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6221.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2690	2690	2690	2690	2690	
5°	2687	2686	2676	2662	2653	254
15°	2532	2538	2532	2521	2503	714
25°	2249	2267	2277	2260	2241	1030
35°	1809	1834	1917	1928	1920	1133
45°	1400	1424	1471	1538	1546	1081
55°	981	997	1046	1104	1136	875
65°	575	590	625	670	708	570
75°	230	243	260	273	288	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°	2690.4	2690.4	2690.4	2690.4	2690.4
2.5°	2697.7	2698.7	2692.5	2676.0	2665.6
5°	2687.3	2686.3	2676.0	2661.5	2653.2
7.5°	2657.3	2659.4	2656.3	2635.6	2624.3
10°	2628.4	2629.4	2621.2	2604.6	2591.2
12.5°	2591.2	2590.2	2578.8	2570.5	2548.8
15°	2532.3	2538.5	2532.3	2520.9	2503.3
17.5°	2475.4	2475.4	2479.6	2459.9	2446.5
20°	2411.4	2414.5	2414.5	2399.0	2383.4
22.5°	2336.9	2346.2	2349.3	2332.8	2314.2
25°	2249.1	2266.7	2277.0	2260.5	2240.8
27.5°	2142.6	2169.5	2200.5	2188.1	2166.4
30°	2023.8	2063.0	2114.7	2104.4	2088.9
32.5°	1911.1	1950.4	2021.7	2017.6	2009.3
35°	1808.8	1833.6	1917.3	1927.6	1920.4
37.5°	1711.6	1734.4	1812.9	1836.7	1830.5
40°	1609.3	1634.1	1696.1	1738.5	1740.6
42.5°	1508.0	1531.8	1582.4	1643.4	1643.4
45°	1400.5	1424.3	1470.8	1538.0	1546.2
47.5°	1295.1	1319.9	1365.4	1432.5	1446.0
50°	1191.7	1214.5	1259.9	1325.1	1345.7
52.5°	1084.2	1109.0	1153.5	1213.4	1243.4
55°	980.9	997.4	1046.0	1103.9	1135.9
57.5°	873.4	888.9	943.7	993.3	1026.3
60°	770.0	789.7	832.0	882.7	920.9
62.5°	670.8	691.5	727.6	772.1	815.5
65°	574.7	590.2	625.3	669.8	708.0
67.5°	481.7	495.1	530.2	561.2	601.5
70°	387.6	405.2	431.0	461.0	486.8
72.5°	312.1	319.4	341.1	362.8	389.7
75°	230.5	242.9	260.5	272.9	288.4
77.5°	165.4	172.6	182.9	193.3	207.8
80°	110.6	113.7	123.0	125.1	136.4
82.5°	67.2	69.3	71.3	72.4	76.5
85°	36.2	36.2	36.2	34.1	34.1
87.5°	20.7	20.7	17.6	14.5	10.3
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)