

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: P555505

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-80-84-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: P555505
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-12-2-LD4-3HI-40-UNV-80-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

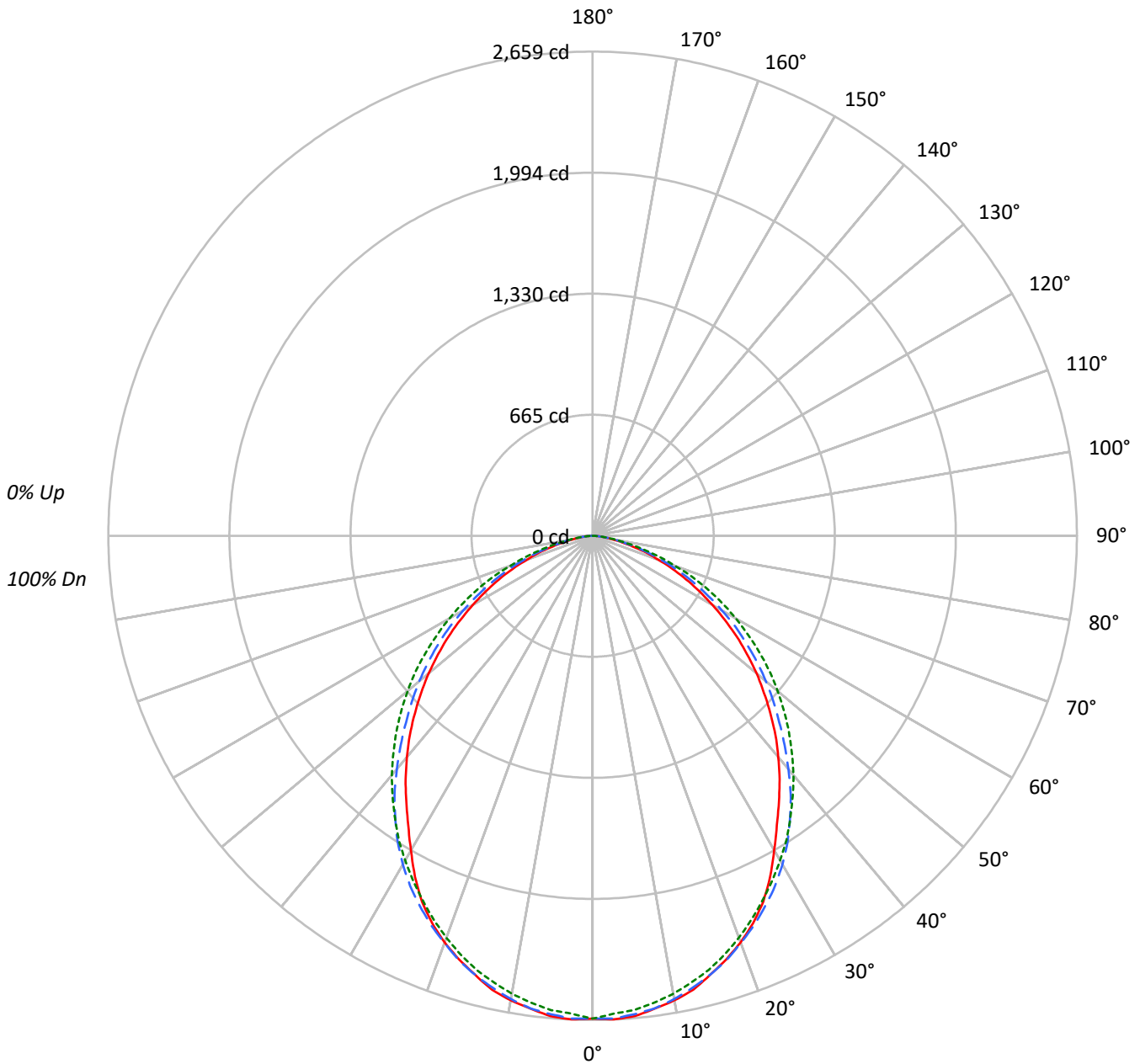
Lumens per Lamp: N/A
Luminaire Lumens: 6131.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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

TEST NUMBER: P555505

CATALOG NUMBER: FUSL-12-2-LD4-3HI-40-UNV-80-84-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°	14270	14270	14270
5°	14308	14248	14126
10°	14156	14118	13956
15°	13905	13905	13746
20°	13611	13628	13454
25°	13162	13326	13114
30°	12395	12952	12794
35°	11712	12415	12435
40°	11143	11744	12052
45°	10505	11032	11599
50°	9834	10397	11105
55°	9071	9673	10504
60°	8169	8826	9769
65°	7213	7848	8886
70°	6011	6685	7550
75°	4724	5338	5910
80°	3378	3756	4169
85°	2205	2205	2075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.6	4.1
10°-20°	701.3	11.4
20°-30°	1024.9	16.7
30°-40°	1163.3	19.0
40°-50°	1123.0	18.3
50°-60°	926.4	15.1
60°-70°	616.9	10.1
70°-80°	276.1	4.5
80°-90°	49.4	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°	1975.8	32.2
0°-40°	3139.2	51.2
0°-60°	5188.6	84.6
0°-90°	6131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6131.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2652	2652	2652	2652	2652	
5°	2648	2647	2637	2623	2615	251
15°	2496	2502	2496	2484	2467	704
25°	2216	2234	2244	2228	2208	1015
35°	1783	1807	1890	1900	1893	1117
45°	1380	1404	1450	1516	1524	1065
55°	967	983	1031	1088	1120	863
65°	566	582	616	660	698	562
75°	227	239	257	269	284	248
85°	36	36	36	34	34	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2651.5	2651.5	2651.5	2651.5	2651.5
2.5°	2658.6	2659.6	2653.5	2637.2	2627.1
5°	2648.4	2647.4	2637.2	2623.0	2614.8
7.5°	2618.9	2620.9	2617.9	2597.5	2586.3
10°	2590.4	2591.4	2583.3	2567.0	2553.7
12.5°	2553.7	2552.7	2541.5	2533.3	2511.9
15°	2495.6	2501.8	2495.6	2484.4	2467.1
17.5°	2439.6	2439.6	2443.7	2424.3	2411.1
20°	2376.5	2379.5	2379.5	2364.2	2349.0
22.5°	2303.1	2312.3	2315.4	2299.1	2280.7
25°	2216.5	2233.9	2244.0	2227.7	2208.4
27.5°	2111.6	2138.1	2168.7	2156.4	2135.1
30°	1994.5	2033.2	2084.1	2073.9	2058.7
32.5°	1883.5	1922.2	1992.4	1988.4	1980.2
35°	1782.6	1807.1	1889.6	1899.7	1892.6
37.5°	1686.9	1709.3	1786.7	1810.1	1804.0
40°	1586.0	1610.5	1671.6	1713.3	1715.4
42.5°	1486.2	1509.6	1559.5	1619.6	1619.6
45°	1380.2	1403.7	1449.5	1515.7	1523.9
47.5°	1276.3	1300.8	1345.6	1411.8	1425.1
50°	1174.5	1196.9	1241.7	1305.9	1326.3
52.5°	1068.5	1093.0	1136.8	1195.9	1225.4
55°	966.7	983.0	1030.9	1087.9	1119.5
57.5°	860.7	876.0	930.0	978.9	1011.5
60°	758.9	778.2	820.0	869.9	907.6
62.5°	661.1	681.5	717.1	760.9	803.7
65°	566.4	581.6	616.3	660.1	697.8
67.5°	474.7	487.9	522.6	553.1	592.8
70°	382.0	399.3	424.8	454.3	479.8
72.5°	307.6	314.8	336.1	357.5	384.0
75°	227.2	239.4	256.7	268.9	284.2
77.5°	163.0	170.1	180.3	190.5	204.7
80°	109.0	112.0	121.2	123.3	134.5
82.5°	66.2	68.2	70.3	71.3	75.4
85°	35.7	35.7	35.7	33.6	33.6
87.5°	20.4	20.4	17.3	14.3	10.2
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)