

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: P557430

Luminaire Tested: **FUSL-12-4-LD4-2STD-30-UNV-80-87-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: P557430
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-80-87-EDD-90
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

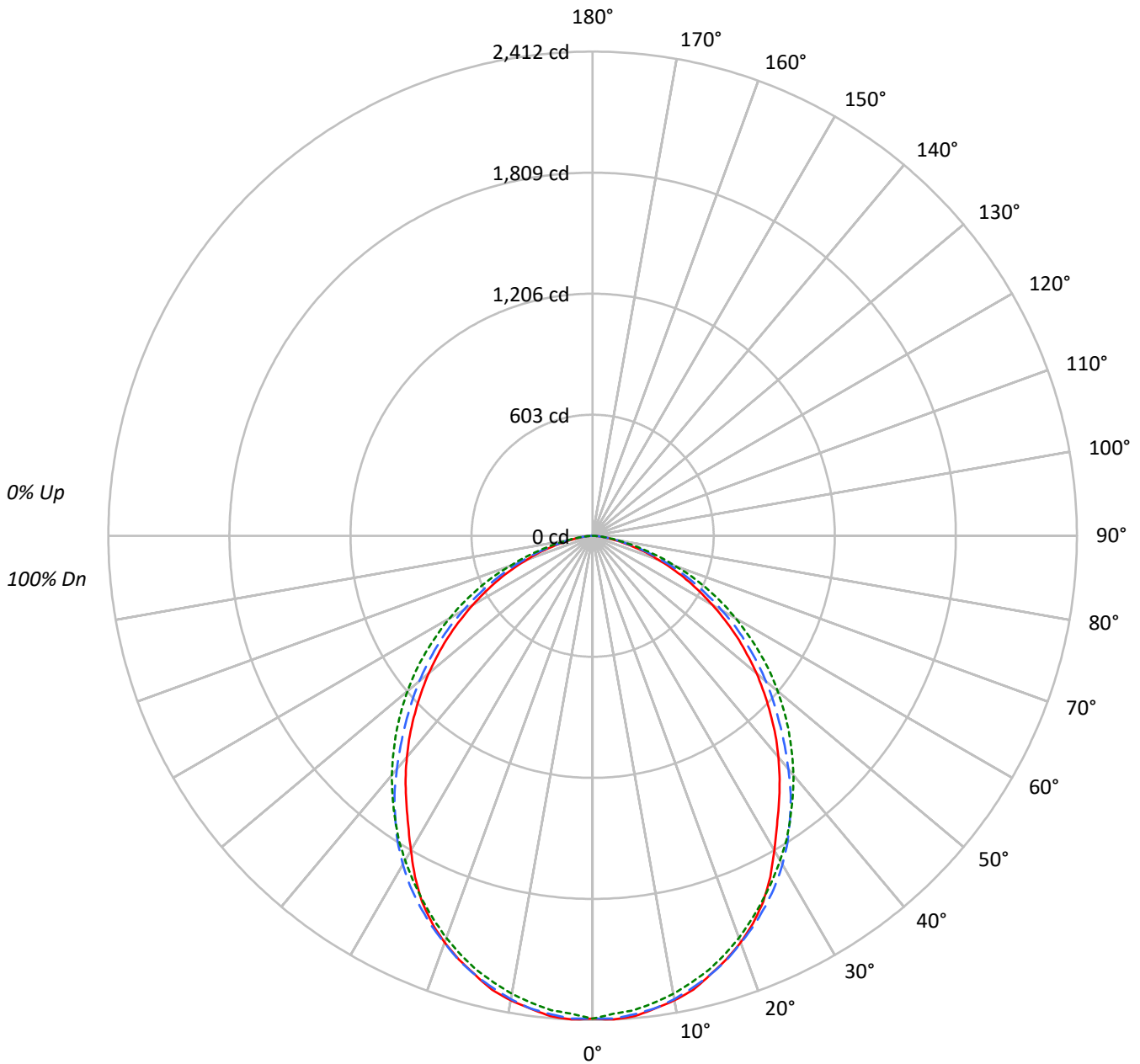
Lumens per Lamp: N/A
Luminaire Lumens: 5562.0 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	6473	6473	6473
5°	6490	6463	6408
10°	6421	6404	6330
15°	6307	6307	6235
20°	6174	6182	6103
25°	5970	6045	5948
30°	5622	5875	5803
35°	5313	5631	5640
40°	5054	5327	5467
45°	4765	5004	5261
50°	4461	4716	5037
55°	4115	4388	4765
60°	3705	4004	4432
65°	3272	3560	4031
70°	2726	3032	3424
75°	2143	2421	2680
80°	1533	1705	1891
85°	997	997	942



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.5	4.1
10°-20°	636.2	11.4
20°-30°	929.8	16.7
30°-40°	1055.4	19.0
40°-50°	1018.8	18.3
50°-60°	840.5	15.1
60°-70°	559.7	10.1
70°-80°	250.5	4.5
80°-90°	44.8	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°	1792.5	32.2
0°-40°	2847.8	51.2
0°-60°	4707.1	84.6
0°-90°	5562.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5562.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2405	2405	2405	2405	2405	
5°	2403	2402	2392	2380	2372	227
15°	2264	2270	2264	2254	2238	638
25°	2011	2026	2036	2021	2003	921
35°	1617	1639	1714	1723	1717	1013
45°	1252	1273	1315	1375	1382	966
55°	877	892	935	987	1016	783
65°	514	528	559	599	633	509
75°	206	217	233	244	258	225
85°	32	32	32	30	30	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2405.4	2405.4	2405.4	2405.4	2405.4
2.5°	2411.9	2412.8	2407.3	2392.5	2383.2
5°	2402.6	2401.7	2392.5	2379.5	2372.2
7.5°	2375.9	2377.7	2374.9	2356.4	2346.3
10°	2350.0	2350.9	2343.5	2328.7	2316.7
12.5°	2316.7	2315.8	2305.6	2298.2	2278.8
15°	2264.0	2269.6	2264.0	2253.9	2238.2
17.5°	2213.2	2213.2	2216.9	2199.3	2187.3
20°	2155.9	2158.7	2158.7	2144.8	2131.0
22.5°	2089.4	2097.7	2100.5	2085.7	2069.1
25°	2010.8	2026.5	2035.8	2021.0	2003.4
27.5°	1915.7	1939.7	1967.4	1956.3	1936.9
30°	1809.4	1844.5	1890.7	1881.5	1867.6
32.5°	1708.7	1743.8	1807.5	1803.8	1796.4
35°	1617.2	1639.3	1714.2	1723.4	1717.0
37.5°	1530.3	1550.6	1620.9	1642.1	1636.6
40°	1438.8	1461.0	1516.4	1554.3	1556.2
42.5°	1348.3	1369.5	1414.8	1469.3	1469.3
45°	1252.1	1273.4	1315.0	1375.1	1382.4
47.5°	1157.9	1180.1	1220.7	1280.8	1292.8
50°	1065.5	1085.8	1126.5	1184.7	1203.2
52.5°	969.4	991.6	1031.3	1084.9	1111.7
55°	877.0	891.8	935.2	986.9	1015.6
57.5°	780.9	794.7	843.7	888.1	917.6
60°	688.5	706.0	743.9	789.2	823.4
62.5°	599.7	618.2	650.6	690.3	729.1
65°	513.8	527.7	559.1	598.8	633.0
67.5°	430.6	442.6	474.1	501.8	537.8
70°	346.5	362.2	385.3	412.1	435.2
72.5°	279.1	285.5	305.0	324.4	348.4
75°	206.1	217.2	232.9	244.0	257.8
77.5°	147.9	154.3	163.6	172.8	185.7
80°	98.9	101.7	110.0	111.8	122.0
82.5°	60.1	61.9	63.8	64.7	68.4
85°	32.3	32.3	32.3	30.5	30.5
87.5°	18.5	18.5	15.7	12.9	9.2
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)