

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: P557951

Luminaire Tested: **FUSL-12-4-LD4-3LO-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: P557951
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-LD4-3LO-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

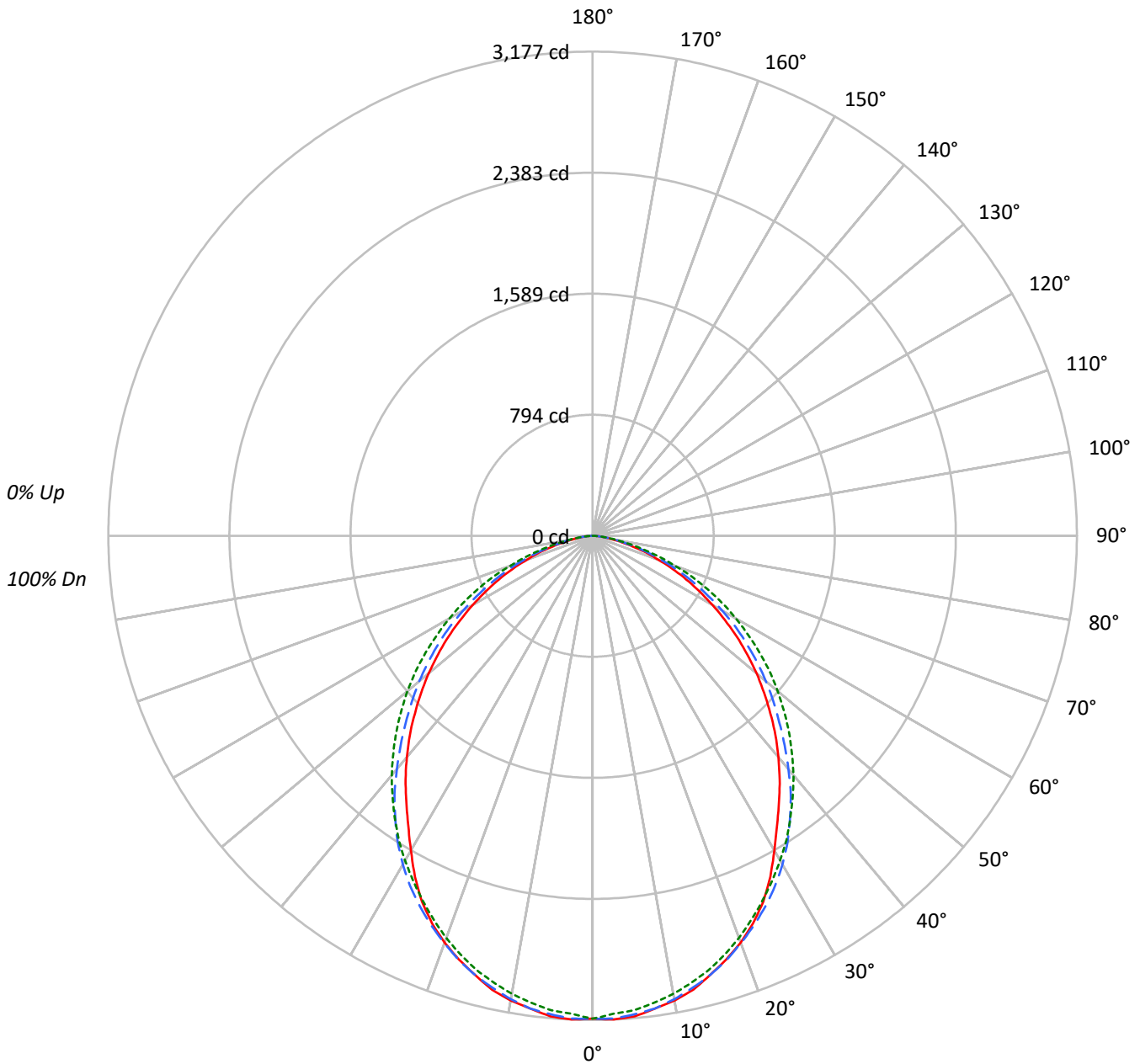
Lumens per Lamp: N/A
Luminaire Lumens: 7327.0 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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

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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°	8527	8527	8527
5°	8550	8514	8441
10°	8459	8436	8339
15°	8309	8309	8214
20°	8133	8143	8039
25°	7865	7963	7836
30°	7406	7739	7645
35°	6998	7418	7430
40°	6658	7018	7201
45°	6277	6592	6930
50°	5876	6212	6635
55°	5420	5780	6277
60°	4881	5274	5838
65°	4309	4690	5310
70°	3592	3994	4511
75°	2823	3190	3531
80°	2019	2245	2490
85°	1315	1315	1241



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.3	4.1
10°-20°	838.1	11.4
20°-30°	1224.8	16.7
30°-40°	1390.3	19.0
40°-50°	1342.1	18.3
50°-60°	1107.1	15.1
60°-70°	737.3	10.1
70°-80°	329.9	4.5
80°-90°	59.0	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°	2361.3	32.2
0°-40°	3751.6	51.2
0°-60°	6200.8	84.6
0°-90°	7327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7327.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3169	3169	3169	3169	3169	
5°	3165	3164	3152	3135	3125	300
15°	2982	2990	2982	2969	2948	841
25°	2649	2670	2682	2662	2639	1213
35°	2130	2160	2258	2270	2262	1335
45°	1650	1678	1732	1811	1821	1273
55°	1155	1175	1232	1300	1338	1031
65°	677	695	736	789	834	671
75°	272	286	307	321	340	297
85°	43	43	43	40	40	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3168.7	3168.7	3168.7	3168.7	3168.7
2.5°	3177.3	3178.5	3171.2	3151.7	3139.5
5°	3165.1	3163.9	3151.7	3134.7	3124.9
7.5°	3129.8	3132.2	3128.6	3104.2	3090.8
10°	3095.7	3096.9	3087.2	3067.7	3051.9
12.5°	3051.9	3050.7	3037.3	3027.5	3002.0
15°	2982.5	2989.8	2982.5	2969.1	2948.4
17.5°	2915.5	2915.5	2920.4	2897.3	2881.4
20°	2840.1	2843.7	2843.7	2825.4	2807.2
22.5°	2752.4	2763.4	2767.0	2747.5	2725.6
25°	2648.9	2669.6	2681.8	2662.3	2639.2
27.5°	2523.5	2555.2	2591.7	2577.1	2551.5
30°	2383.6	2429.8	2490.7	2478.5	2460.2
32.5°	2250.9	2297.1	2381.1	2376.2	2366.5
35°	2130.3	2159.6	2258.2	2270.3	2261.8
37.5°	2015.9	2042.7	2135.2	2163.2	2155.9
40°	1895.4	1924.6	1997.7	2047.6	2050.0
42.5°	1776.1	1804.1	1863.7	1935.6	1935.6
45°	1649.5	1677.5	1732.3	1811.4	1821.1
47.5°	1525.3	1554.5	1608.1	1687.2	1703.1
50°	1403.6	1430.4	1483.9	1560.6	1585.0
52.5°	1277.0	1306.2	1358.6	1429.2	1464.5
55°	1155.3	1174.7	1231.9	1300.1	1337.9
57.5°	1028.7	1046.9	1111.4	1169.9	1208.8
60°	906.9	930.0	980.0	1039.6	1084.7
62.5°	790.1	814.4	857.0	909.4	960.5
65°	676.8	695.1	736.5	788.8	833.9
67.5°	567.3	583.1	624.5	661.0	708.5
70°	456.5	477.2	507.6	542.9	573.4
72.5°	367.6	376.2	401.7	427.3	458.9
75°	271.5	286.1	306.8	321.4	339.6
77.5°	194.8	203.3	215.5	227.6	244.7
80°	130.3	133.9	144.9	147.3	160.7
82.5°	79.1	81.6	84.0	85.2	90.1
85°	42.6	42.6	42.6	40.2	40.2
87.5°	24.3	24.3	20.7	17.0	12.2
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)