

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: P557819

Luminaire Tested: **FUSL-12-4-LD4-3HI-40-UNV-80-94-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: P557819
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-LD4-3HI-40-UNV-80-94-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

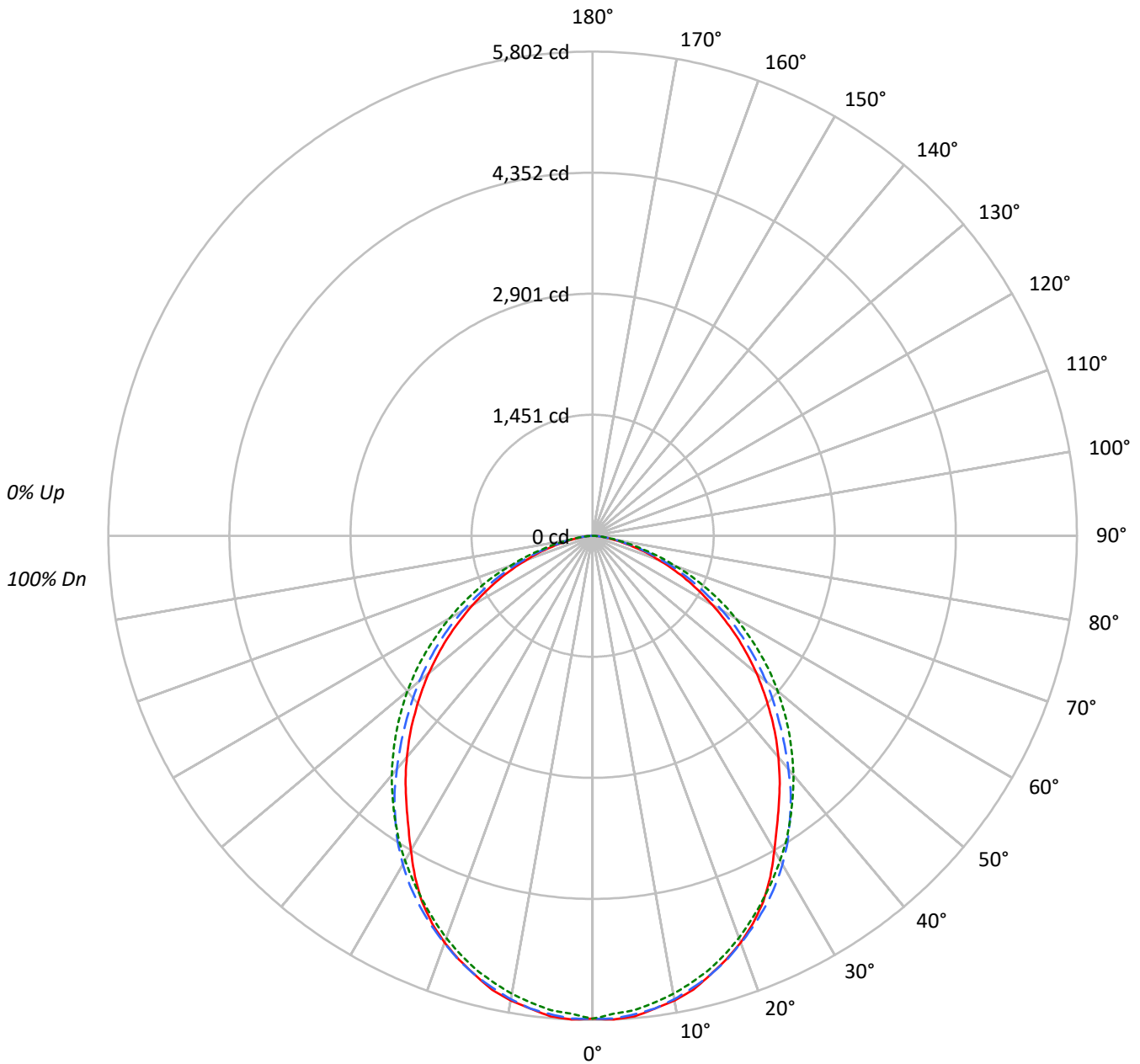
Lumens per Lamp: N/A
Luminaire Lumens: 13381.0 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
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°	15572	15572	15572
5°	15614	15548	15416
10°	15448	15406	15230
15°	15174	15174	15001
20°	14853	14872	14681
25°	14364	14542	14311
30°	13526	14134	13961
35°	12781	13548	13570
40°	12160	12815	13151
45°	11464	12039	12657
50°	10731	11346	12118
55°	9898	10556	11463
60°	8914	9632	10661
65°	7871	8564	9697
70°	6559	7294	8238
75°	5155	5824	6449
80°	3687	4100	4548
85°	2402	2402	2266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.9	4.1
10°-20°	1530.7	11.4
20°-30°	2236.8	16.7
30°-40°	2539.0	19.0
40°-50°	2451.0	18.3
50°-60°	2021.9	15.1
60°-70°	1346.4	10.1
70°-80°	602.5	4.5
80°-90°	107.8	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°	4312.3	32.2
0°-40°	6851.3	51.2
0°-60°	11324.3	84.6
0°-90°	13381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13381.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5787	5787	5787	5787	5787	
5°	5780	5778	5756	5725	5707	547
15°	5447	5460	5447	5422	5384	1535
25°	4838	4875	4898	4862	4820	2215
35°	3891	3944	4124	4146	4131	2438
45°	3012	3064	3164	3308	3326	2324
55°	2110	2145	2250	2374	2443	1883
65°	1236	1269	1345	1441	1523	1226
75°	496	522	560	587	620	542
85°	78	78	78	73	73	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5786.9	5786.9	5786.9	5786.9	5786.9
2.5°	5802.5	5804.7	5791.4	5755.8	5733.6
5°	5780.3	5778.0	5755.8	5724.7	5706.9
7.5°	5715.8	5720.2	5713.6	5669.1	5644.7
10°	5653.5	5655.8	5638.0	5602.4	5573.5
12.5°	5573.5	5571.3	5546.8	5529.0	5482.4
15°	5446.8	5460.1	5446.8	5422.3	5384.5
17.5°	5324.5	5324.5	5333.4	5291.2	5262.3
20°	5186.7	5193.3	5193.3	5160.0	5126.7
22.5°	5026.6	5046.6	5053.3	5017.7	4977.7
25°	4837.6	4875.4	4897.7	4862.1	4819.9
27.5°	4608.7	4666.5	4733.1	4706.5	4659.8
30°	4353.0	4437.5	4548.6	4526.4	4493.0
32.5°	4110.7	4195.1	4348.5	4339.6	4321.9
35°	3890.6	3943.9	4124.0	4146.2	4130.7
37.5°	3681.6	3730.5	3899.5	3950.6	3937.3
40°	3461.5	3514.8	3648.2	3739.4	3743.8
42.5°	3243.6	3294.8	3403.7	3534.9	3534.9
45°	3012.4	3063.5	3163.6	3308.1	3325.9
47.5°	2785.6	2839.0	2936.8	3081.3	3110.2
50°	2563.3	2612.2	2710.1	2850.1	2894.6
52.5°	2332.1	2385.5	2481.1	2610.0	2674.5
55°	2109.8	2145.4	2249.9	2374.4	2443.3
57.5°	1878.6	1911.9	2029.8	2136.5	2207.6
60°	1656.3	1698.5	1789.7	1898.6	1980.9
62.5°	1442.8	1487.3	1565.1	1660.7	1754.1
65°	1236.1	1269.4	1345.0	1440.6	1522.9
67.5°	1036.0	1064.9	1140.5	1207.2	1293.9
70°	833.7	871.5	927.1	991.5	1047.1
72.5°	671.4	687.0	733.6	780.3	838.1
75°	495.8	522.4	560.2	586.9	620.3
77.5°	355.7	371.3	393.5	415.7	446.9
80°	237.9	244.5	264.6	269.0	293.5
82.5°	144.5	149.0	153.4	155.6	164.5
85°	77.8	77.8	77.8	73.4	73.4
87.5°	44.5	44.5	37.8	31.1	22.2
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)