

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: P554705

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-82-84-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: P554705
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-LD4-2HI-35-UNV-82-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

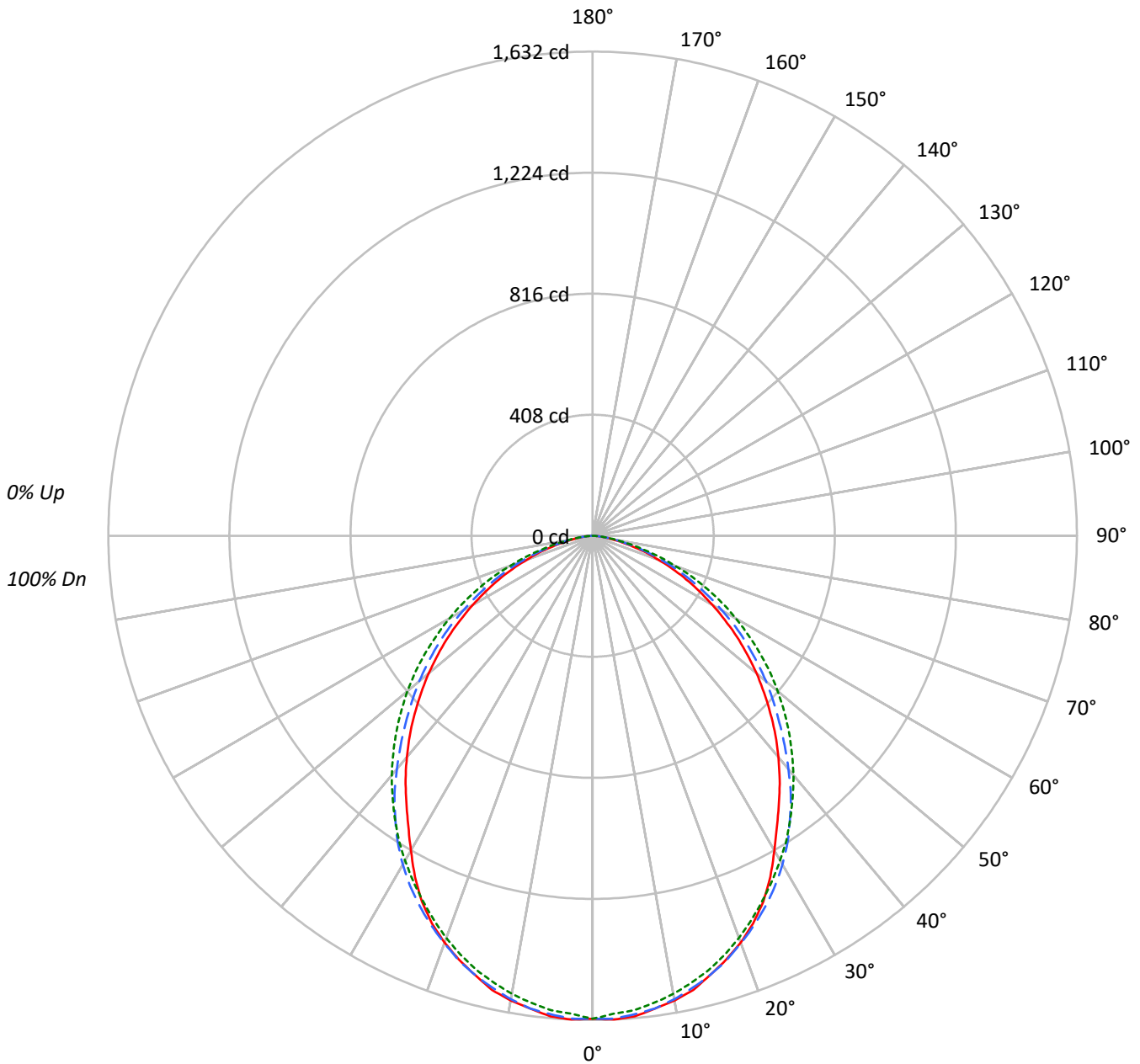
Lumens per Lamp: N/A
Luminaire Lumens: 3764.0 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	8761	8761	8761
5°	8784	8747	8673
10°	8691	8667	8568
15°	8537	8537	8439
20°	8356	8367	8259
25°	8081	8181	8051
30°	7610	7952	7855
35°	7190	7622	7634
40°	6841	7210	7399
45°	6450	6773	7121
50°	6037	6383	6817
55°	5569	5939	6449
60°	5015	5419	5998
65°	4428	4818	5456
70°	3690	4104	4634
75°	2901	3277	3629
80°	2073	2306	2557
85°	1352	1352	1272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.3	4.1
10°-20°	430.6	11.4
20°-30°	629.2	16.7
30°-40°	714.2	19.0
40°-50°	689.5	18.3
50°-60°	568.8	15.1
60°-70°	378.7	10.1
70°-80°	169.5	4.5
80°-90°	30.3	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°	1213.0	32.2
0°-40°	1927.2	51.2
0°-60°	3185.5	84.6
0°-90°	3764.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3764.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1628	1628	1628	1628	1628	
5°	1626	1625	1619	1610	1605	154
15°	1532	1536	1532	1525	1515	432
25°	1361	1371	1378	1368	1356	623
35°	1094	1109	1160	1166	1162	686
45°	847	862	890	930	936	654
55°	594	604	633	668	687	530
65°	348	357	378	405	428	345
75°	140	147	158	165	174	153
85°	22	22	22	21	21	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1627.8	1627.8	1627.8	1627.8	1627.8
2.5°	1632.2	1632.8	1629.1	1619.1	1612.8
5°	1626.0	1625.3	1619.1	1610.3	1605.3
7.5°	1607.8	1609.1	1607.2	1594.7	1587.8
10°	1590.3	1590.9	1585.9	1575.9	1567.8
12.5°	1567.8	1567.2	1560.3	1555.3	1542.2
15°	1532.2	1535.9	1532.2	1525.3	1514.6
17.5°	1497.8	1497.8	1500.3	1488.4	1480.2
20°	1459.0	1460.9	1460.9	1451.5	1442.1
22.5°	1414.0	1419.6	1421.5	1411.5	1400.2
25°	1360.8	1371.4	1377.7	1367.7	1355.8
27.5°	1296.4	1312.6	1331.4	1323.9	1310.8
30°	1224.5	1248.2	1279.5	1273.2	1263.9
32.5°	1156.3	1180.1	1223.2	1220.7	1215.7
35°	1094.4	1109.4	1160.1	1166.3	1161.9
37.5°	1035.6	1049.4	1096.9	1111.3	1107.5
40°	973.7	988.7	1026.2	1051.9	1053.1
42.5°	912.4	926.8	957.4	994.3	994.3
45°	847.4	861.8	889.9	930.5	935.6
47.5°	783.6	798.6	826.1	866.8	874.9
50°	721.0	734.8	762.3	801.7	814.2
52.5°	656.0	671.0	697.9	734.2	752.3
55°	593.5	603.5	632.9	667.9	687.3
57.5°	528.4	537.8	571.0	601.0	621.0
60°	465.9	477.8	503.4	534.1	557.2
62.5°	405.9	418.4	440.3	467.1	493.4
65°	347.7	357.1	378.3	405.2	428.4
67.5°	291.4	299.6	320.8	339.6	364.0
70°	234.5	245.1	260.8	278.9	294.5
72.5°	188.9	193.2	206.4	219.5	235.8
75°	139.5	147.0	157.6	165.1	174.5
77.5°	100.1	104.4	110.7	116.9	125.7
80°	66.9	68.8	74.4	75.7	82.5
82.5°	40.6	41.9	43.2	43.8	46.3
85°	21.9	21.9	21.9	20.6	20.6
87.5°	12.5	12.5	10.6	8.8	6.3
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)