

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: P554853

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-UNV-93-86-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: P554853
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-50-UNV-93-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

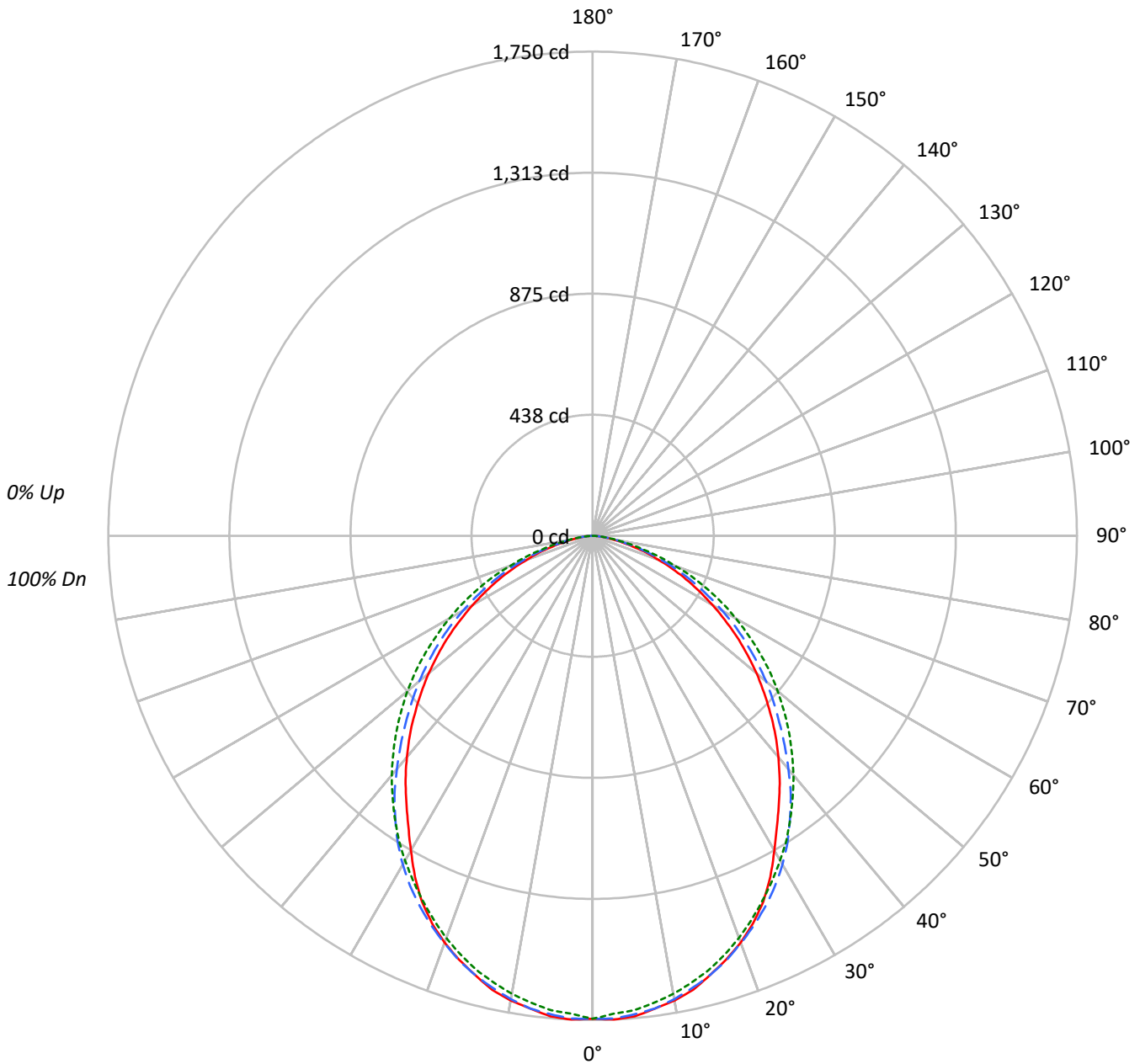
Lumens per Lamp: N/A
Luminaire Lumens: 4036.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
Input Voltage (V): NR
Input Current (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°	9394	9394	9394
5°	9419	9379	9299
10°	9319	9293	9187
15°	9154	9154	9049
20°	8960	8971	8856
25°	8665	8772	8633
30°	8160	8526	8422
35°	7710	8173	8186
40°	7335	7731	7933
45°	6916	7263	7636
50°	6474	6844	7310
55°	5971	6367	6914
60°	5378	5810	6431
65°	4748	5167	5849
70°	3958	4400	4969
75°	3109	3514	3891
80°	2222	2473	2743
85°	1451	1451	1365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	4.1
10°-20°	461.7	11.4
20°-30°	674.7	16.7
30°-40°	765.8	19.0
40°-50°	739.3	18.3
50°-60°	609.9	15.1
60°-70°	406.1	10.1
70°-80°	181.7	4.5
80°-90°	32.5	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°	1300.7	32.2
0°-40°	2066.5	51.2
0°-60°	3415.7	84.6
0°-90°	4036.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4036.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1746	1746	1746	1746	1746	
5°	1744	1743	1736	1727	1721	165
15°	1643	1647	1643	1636	1624	463
25°	1459	1470	1477	1466	1454	668
35°	1174	1190	1244	1251	1246	735
45°	909	924	954	998	1003	701
55°	636	647	679	716	737	568
65°	373	383	406	434	459	370
75°	150	158	169	177	187	163
85°	24	24	24	22	22	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1745.5	1745.5	1745.5	1745.5	1745.5
2.5°	1750.2	1750.8	1746.8	1736.1	1729.4
5°	1743.5	1742.8	1736.1	1726.7	1721.3
7.5°	1724.0	1725.3	1723.3	1709.9	1702.5
10°	1705.2	1705.9	1700.5	1689.8	1681.1
12.5°	1681.1	1680.4	1673.0	1667.7	1653.6
15°	1642.9	1646.9	1642.9	1635.5	1624.1
17.5°	1606.0	1606.0	1608.7	1595.9	1587.2
20°	1564.4	1566.4	1566.4	1556.4	1546.3
22.5°	1516.1	1522.2	1524.2	1513.5	1501.4
25°	1459.1	1470.5	1477.2	1466.5	1453.8
27.5°	1390.1	1407.5	1427.6	1419.6	1405.5
30°	1313.0	1338.4	1372.0	1365.3	1355.2
32.5°	1239.9	1265.3	1311.6	1308.9	1303.6
35°	1173.5	1189.6	1243.9	1250.6	1245.9
37.5°	1110.4	1125.2	1176.2	1191.6	1187.6
40°	1044.1	1060.2	1100.4	1127.9	1129.2
42.5°	978.3	993.8	1026.6	1066.2	1066.2
45°	908.6	924.0	954.2	997.8	1003.2
47.5°	840.2	856.3	885.8	929.4	938.1
50°	773.2	787.9	817.4	859.7	873.1
52.5°	703.4	719.5	748.3	787.2	806.7
55°	636.4	647.1	678.6	716.2	736.9
57.5°	566.6	576.7	612.2	644.4	665.9
60°	499.6	512.3	539.8	572.7	597.5
62.5°	435.2	448.6	472.1	500.9	529.1
65°	372.8	382.9	405.7	434.5	459.3
67.5°	312.5	321.2	344.0	364.1	390.3
70°	251.5	262.9	279.6	299.1	315.8
72.5°	202.5	207.2	221.3	235.4	252.8
75°	149.5	157.6	169.0	177.0	187.1
77.5°	107.3	112.0	118.7	125.4	134.8
80°	71.7	73.8	79.8	81.1	88.5
82.5°	43.6	44.9	46.3	46.9	49.6
85°	23.5	23.5	23.5	22.1	22.1
87.5°	13.4	13.4	11.4	9.4	6.7
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)