

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: P554721

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-93-84-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: P554721
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-93-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS 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

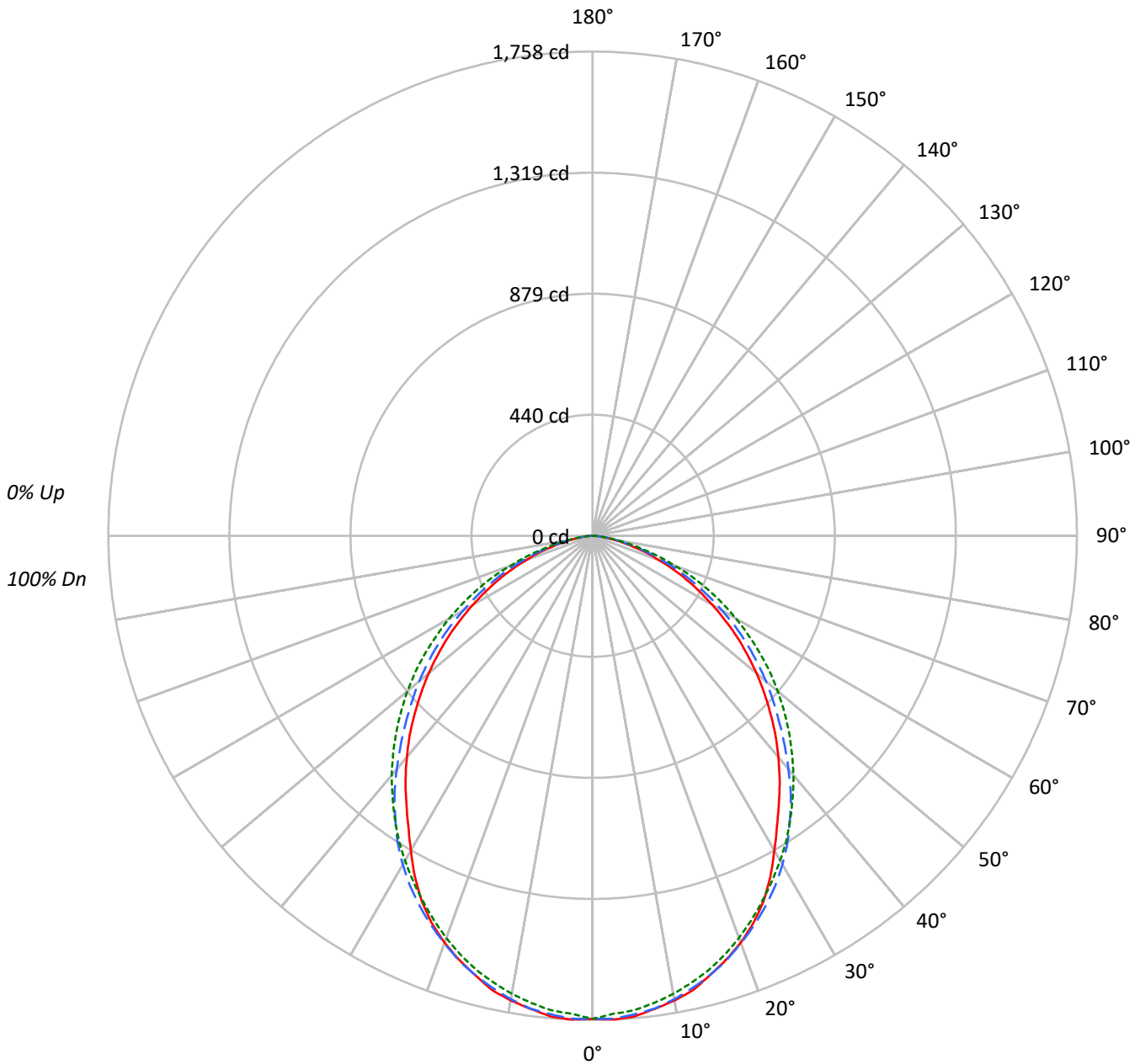
Lumens per Lamp: N/A
Luminaire Lumens: 4055.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	9438	9438	9438
5°	9464	9424	9343
10°	9363	9337	9230
15°	9197	9197	9092
20°	9002	9014	8898
25°	8706	8814	8674
30°	8198	8566	8462
35°	7746	8211	8225
40°	7370	7768	7971
45°	6948	7297	7671
50°	6504	6877	7345
55°	6000	6397	6947
60°	5402	5837	6462
65°	4770	5191	5877
70°	3975	4420	4993
75°	3123	3531	3909
80°	2235	2486	2755
85°	1457	1457	1371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.1	4.1
10°-20°	463.8	11.4
20°-30°	677.8	16.7
30°-40°	769.4	19.0
40°-50°	742.8	18.3
50°-60°	612.7	15.1
60°-70°	408.0	10.1
70°-80°	182.6	4.5
80°-90°	32.7	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°	1306.8	32.2
0°-40°	2076.2	51.2
0°-60°	3431.7	84.6
0°-90°	4055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4055.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1754	1754	1754	1754	1754	
5°	1752	1751	1744	1735	1729	166
15°	1651	1655	1651	1643	1632	465
25°	1466	1478	1484	1473	1461	671
35°	1179	1195	1250	1256	1252	739
45°	913	928	959	1002	1008	704
55°	639	650	682	720	740	571
65°	375	385	408	437	462	371
75°	150	158	170	178	188	164
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°	1753.7	1753.7	1753.7	1753.7	1753.7
2.5°	1758.4	1759.1	1755.0	1744.3	1737.5
5°	1751.7	1751.0	1744.3	1734.8	1729.4
7.5°	1732.1	1733.5	1731.5	1718.0	1710.6
10°	1713.3	1713.9	1708.5	1697.8	1689.0
12.5°	1689.0	1688.3	1680.9	1675.5	1661.4
15°	1650.6	1654.6	1650.6	1643.2	1631.7
17.5°	1613.5	1613.5	1616.2	1603.4	1594.7
20°	1571.8	1573.8	1573.8	1563.7	1553.6
22.5°	1523.3	1529.3	1531.4	1520.6	1508.5
25°	1466.0	1477.5	1484.2	1473.4	1460.6
27.5°	1396.6	1414.1	1434.3	1426.3	1412.1
30°	1319.1	1344.7	1378.4	1371.7	1361.6
32.5°	1245.7	1271.3	1317.8	1315.1	1309.7
35°	1179.0	1195.2	1249.7	1256.5	1251.8
37.5°	1115.7	1130.5	1181.7	1197.2	1193.2
40°	1049.0	1065.1	1105.6	1133.2	1134.5
42.5°	983.0	998.4	1031.5	1071.2	1071.2
45°	912.9	928.4	958.7	1002.5	1007.9
47.5°	844.2	860.3	890.0	933.8	942.5
50°	776.8	791.6	821.3	863.7	877.2
52.5°	706.7	722.9	751.9	790.9	810.5
55°	639.4	650.1	681.8	719.5	740.4
57.5°	569.3	579.4	615.1	647.4	669.0
60°	501.9	514.7	542.3	575.4	600.3
62.5°	437.2	450.7	474.3	503.3	531.6
65°	374.6	384.7	407.6	436.6	461.5
67.5°	314.0	322.7	345.6	365.8	392.1
70°	252.6	264.1	280.9	300.5	317.3
72.5°	203.5	208.2	222.3	236.5	254.0
75°	150.2	158.3	169.8	177.9	188.0
77.5°	107.8	112.5	119.2	126.0	135.4
80°	72.1	74.1	80.2	81.5	88.9
82.5°	43.8	45.1	46.5	47.2	49.9
85°	23.6	23.6	23.6	22.2	22.2
87.5°	13.5	13.5	11.5	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)