

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: P555996

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-82-96-EDD-90**

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: P555996
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-LD4-3STD-35-UNV-82-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

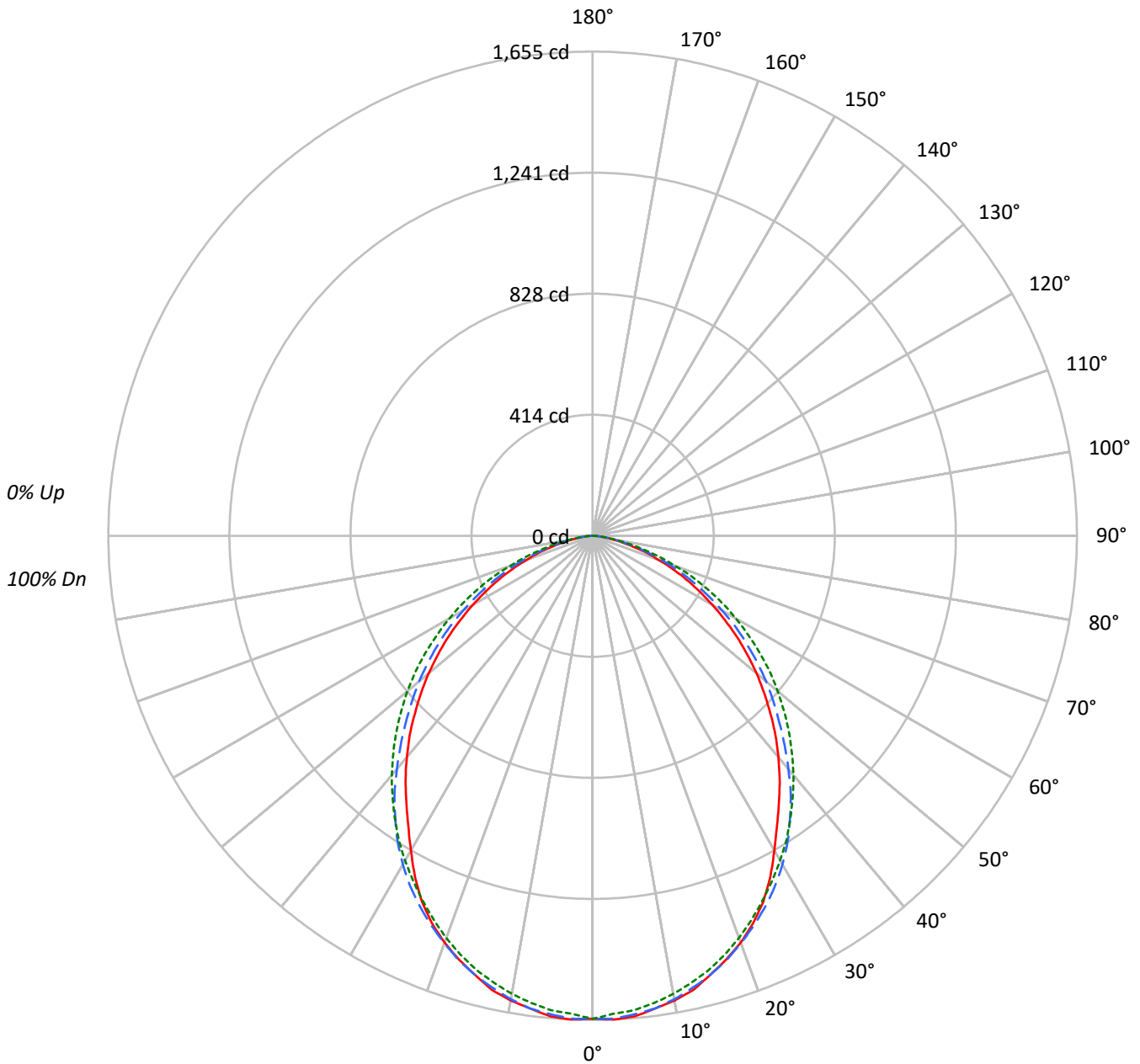
Lumens per Lamp: N/A
Luminaire Lumens: 3817.0 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	8885	8885	8885
5°	8908	8870	8795
10°	8813	8789	8689
15°	8657	8657	8558
20°	8474	8485	8376
25°	8195	8296	8165
30°	7717	8063	7965
35°	7292	7729	7742
40°	6937	7312	7503
45°	6540	6868	7221
50°	6122	6473	6913
55°	5647	6022	6540
60°	5086	5495	6082
65°	4490	4886	5532
70°	3742	4162	4700
75°	2940	3323	3679
80°	2104	2340	2594
85°	1371	1371	1291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.4	4.1
10°-20°	436.6	11.4
20°-30°	638.1	16.7
30°-40°	724.3	19.0
40°-50°	699.2	18.3
50°-60°	576.8	15.1
60°-70°	384.1	10.1
70°-80°	171.9	4.5
80°-90°	30.8	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°	1230.1	32.2
0°-40°	1954.4	51.2
0°-60°	3230.3	84.6
0°-90°	3817.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3817.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1651	1651	1651	1651	1651	
5°	1649	1648	1642	1633	1628	156
15°	1554	1558	1554	1547	1536	438
25°	1380	1391	1397	1387	1375	632
35°	1110	1125	1176	1183	1178	695
45°	859	874	902	944	949	663
55°	602	612	642	677	697	537
65°	353	362	384	411	434	350
75°	141	149	160	167	177	155
85°	22	22	22	21	21	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1650.8	1650.8	1650.8	1650.8	1650.8
2.5°	1655.2	1655.8	1652.0	1641.9	1635.5
5°	1648.9	1648.2	1641.9	1633.0	1627.9
7.5°	1630.5	1631.7	1629.8	1617.1	1610.2
10°	1612.7	1613.3	1608.3	1598.1	1589.9
12.5°	1589.9	1589.2	1582.3	1577.2	1563.9
15°	1553.7	1557.5	1553.7	1546.7	1536.0
17.5°	1518.8	1518.8	1521.4	1509.3	1501.1
20°	1479.5	1481.4	1481.4	1471.9	1462.4
22.5°	1433.9	1439.6	1441.5	1431.3	1419.9
25°	1380.0	1390.7	1397.1	1386.9	1374.9
27.5°	1314.6	1331.1	1350.2	1342.5	1329.2
30°	1241.7	1265.8	1297.5	1291.2	1281.7
32.5°	1172.6	1196.7	1240.4	1237.9	1232.8
35°	1109.8	1125.0	1176.4	1182.7	1178.3
37.5°	1050.2	1064.1	1112.3	1126.9	1123.1
40°	987.4	1002.6	1040.7	1066.7	1067.9
42.5°	925.3	939.8	970.9	1008.3	1008.3
45°	859.3	873.9	902.4	943.7	948.7
47.5°	794.6	809.8	837.7	879.0	887.2
50°	731.2	745.2	773.1	813.0	825.7
52.5°	665.2	680.5	707.7	744.5	762.9
55°	601.8	612.0	641.8	677.3	697.0
57.5°	535.9	545.4	579.0	609.4	629.7
60°	472.5	484.5	510.5	541.6	565.0
62.5°	411.6	424.3	446.5	473.7	500.4
65°	352.6	362.1	383.7	410.9	434.4
67.5°	295.5	303.8	325.3	344.4	369.1
70°	237.8	248.6	264.5	282.8	298.7
72.5°	191.5	196.0	209.3	222.6	239.1
75°	141.4	149.0	159.8	167.4	176.9
77.5°	101.5	105.9	112.2	118.6	127.5
80°	67.9	69.8	75.5	76.7	83.7
82.5°	41.2	42.5	43.8	44.4	46.9
85°	22.2	22.2	22.2	20.9	20.9
87.5°	12.7	12.7	10.8	8.9	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)