

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: P555993

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-82-88-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: P555993
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-82-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

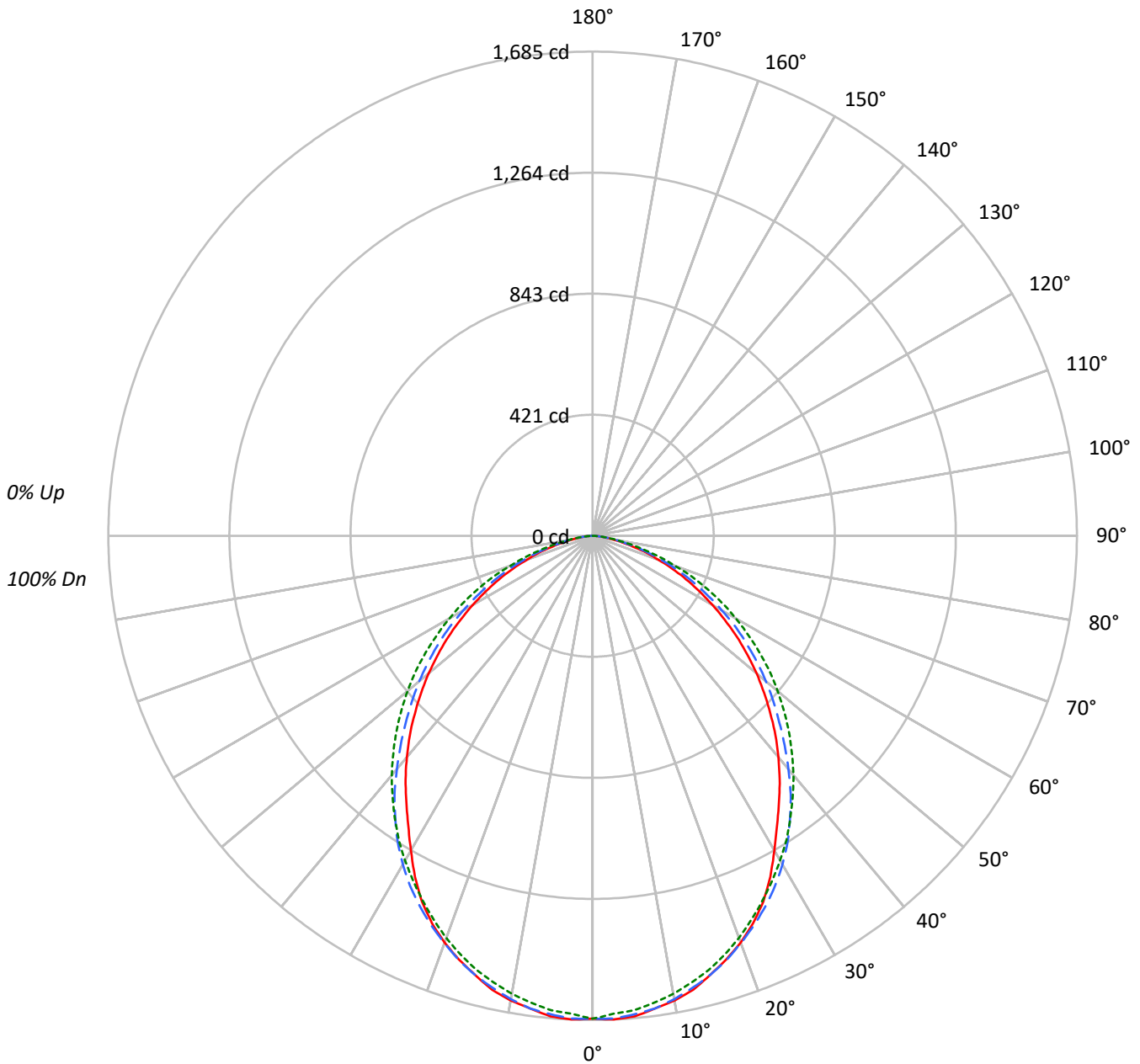
Lumens per Lamp: N/A
Luminaire Lumens: 3886.0 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	9045	9045	9045
5°	9069	9031	8954
10°	8973	8948	8846
15°	8813	8813	8713
20°	8627	8638	8527
25°	8343	8446	8312
30°	7856	8209	8109
35°	7424	7869	7882
40°	7063	7444	7639
45°	6658	6992	7352
50°	6233	6589	7038
55°	5749	6131	6658
60°	5177	5594	6192
65°	4572	4974	5633
70°	3810	4236	4785
75°	2994	3383	3745
80°	2142	2380	2641
85°	1396	1396	1315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	4.1
10°-20°	444.5	11.4
20°-30°	649.6	16.7
30°-40°	737.4	19.0
40°-50°	711.8	18.3
50°-60°	587.2	15.1
60°-70°	391.0	10.1
70°-80°	175.0	4.5
80°-90°	31.3	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°	1252.3	32.2
0°-40°	1989.7	51.2
0°-60°	3288.7	84.6
0°-90°	3886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3886.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1681	1681	1681	1681	1681	
5°	1679	1678	1672	1662	1657	159
15°	1582	1586	1582	1575	1564	446
25°	1405	1416	1422	1412	1400	643
35°	1130	1145	1198	1204	1200	708
45°	875	890	919	961	966	675
55°	613	623	653	690	710	547
65°	359	369	391	418	442	356
75°	144	152	163	170	180	157
85°	23	23	23	21	21	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1680.6	1680.6	1680.6	1680.6	1680.6
2.5°	1685.1	1685.8	1681.9	1671.6	1665.1
5°	1678.7	1678.0	1671.6	1662.5	1657.4
7.5°	1659.9	1661.2	1659.3	1646.4	1639.3
10°	1641.9	1642.5	1637.3	1627.0	1618.6
12.5°	1618.6	1618.0	1610.9	1605.7	1592.1
15°	1581.8	1585.7	1581.8	1574.7	1563.7
17.5°	1546.3	1546.3	1548.9	1536.6	1528.2
20°	1506.3	1508.2	1508.2	1498.5	1488.8
22.5°	1459.8	1465.6	1467.5	1457.2	1445.6
25°	1404.9	1415.9	1422.3	1412.0	1399.7
27.5°	1338.4	1355.2	1374.6	1366.8	1353.3
30°	1264.2	1288.7	1321.0	1314.5	1304.8
32.5°	1193.8	1218.3	1262.9	1260.3	1255.1
35°	1129.9	1145.4	1197.7	1204.1	1199.6
37.5°	1069.2	1083.4	1132.4	1147.3	1143.4
40°	1005.3	1020.8	1059.5	1086.0	1087.3
42.5°	942.0	956.8	988.5	1026.6	1026.6
45°	874.8	889.7	918.7	960.7	965.9
47.5°	809.0	824.5	852.9	894.9	903.2
50°	744.4	758.6	787.0	827.7	840.6
52.5°	677.3	692.8	720.5	758.0	776.7
55°	612.7	623.0	653.4	689.5	709.6
57.5°	545.6	555.2	589.5	620.5	641.1
60°	481.0	493.3	519.7	551.4	575.3
62.5°	419.0	431.9	454.5	482.3	509.4
65°	359.0	368.7	390.6	418.4	442.3
67.5°	300.9	309.3	331.2	350.6	375.8
70°	242.1	253.1	269.2	288.0	304.1
72.5°	195.0	199.5	213.1	226.6	243.4
75°	144.0	151.7	162.7	170.4	180.1
77.5°	103.3	107.8	114.3	120.7	129.8
80°	69.1	71.0	76.8	78.1	85.2
82.5°	42.0	43.3	44.5	45.2	47.8
85°	22.6	22.6	22.6	21.3	21.3
87.5°	12.9	12.9	11.0	9.0	6.5
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)