

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: P555970

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-81-85-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: P555970
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-81-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

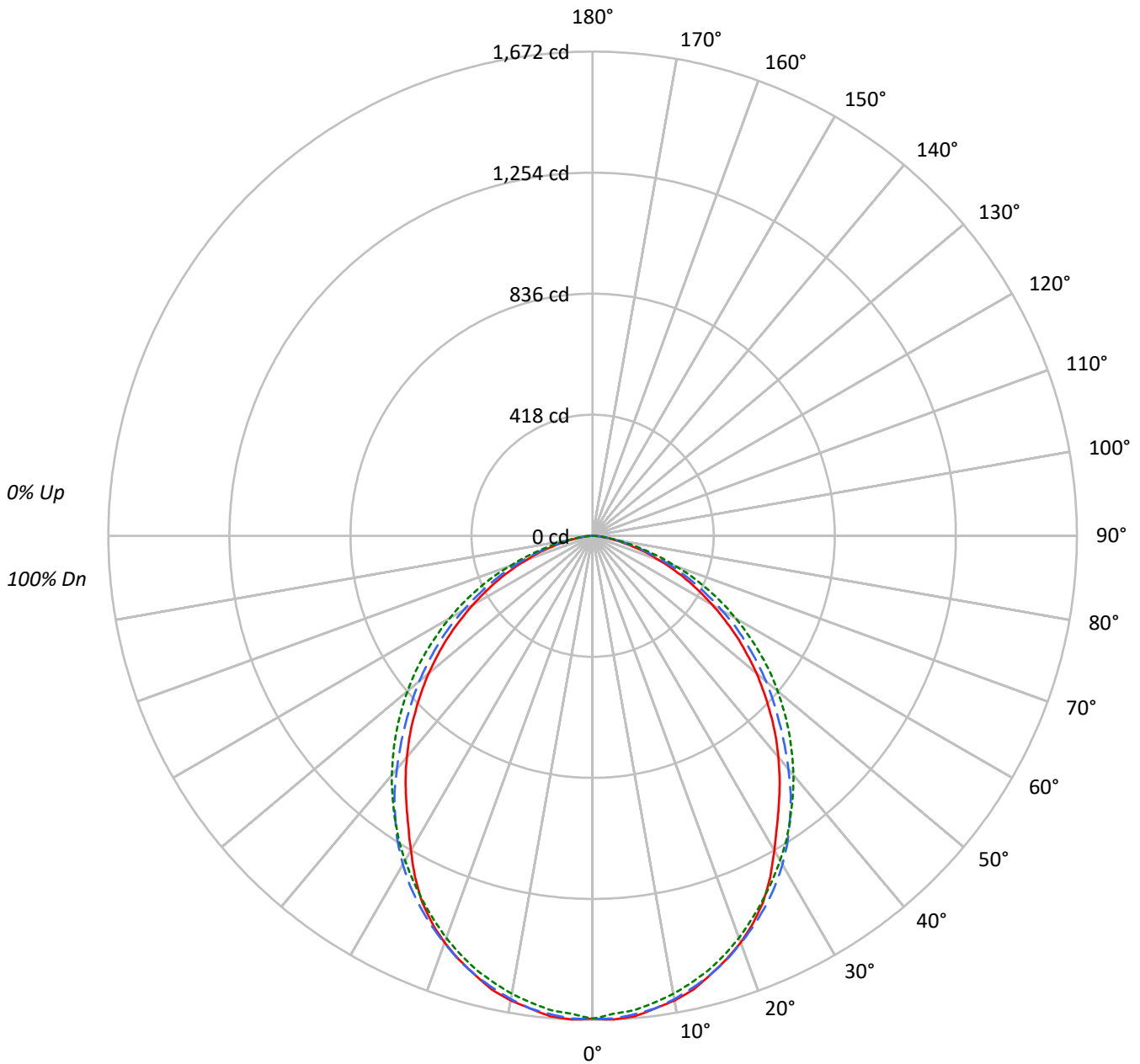
Lumens per Lamp: N/A
Luminaire Lumens: 3856.0 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	8975	8975	8975
5°	8999	8961	8885
10°	8904	8879	8777
15°	8746	8746	8646
20°	8560	8572	8461
25°	8279	8381	8248
30°	7796	8146	8047
35°	7366	7808	7820
40°	7008	7386	7580
45°	6607	6938	7295
50°	6185	6539	6984
55°	5705	6083	6607
60°	5138	5551	6144
65°	4536	4936	5588
70°	3780	4205	4747
75°	2972	3356	3716
80°	2123	2362	2622
85°	1383	1383	1303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.0	4.1
10°-20°	441.1	11.4
20°-30°	644.6	16.7
30°-40°	731.7	19.0
40°-50°	706.3	18.3
50°-60°	582.7	15.1
60°-70°	388.0	10.1
70°-80°	173.6	4.5
80°-90°	31.0	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°	1242.7	32.2
0°-40°	1974.3	51.2
0°-60°	3263.3	84.6
0°-90°	3856.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3856.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1668	1668	1668	1668	1668	
5°	1666	1665	1659	1650	1645	158
15°	1570	1573	1570	1563	1552	442
25°	1394	1405	1411	1401	1389	638
35°	1121	1136	1188	1195	1190	702
45°	868	883	912	953	958	670
55°	608	618	648	684	704	543
65°	356	366	388	415	439	353
75°	143	151	161	169	179	156
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°	1667.6	1667.6	1667.6	1667.6	1667.6
2.5°	1672.1	1672.7	1668.9	1658.7	1652.2
5°	1665.7	1665.1	1658.7	1649.7	1644.6
7.5°	1647.1	1648.4	1646.5	1633.7	1626.6
10°	1629.2	1629.8	1624.7	1614.4	1606.1
12.5°	1606.1	1605.5	1598.4	1593.3	1579.9
15°	1569.6	1573.4	1569.6	1562.6	1551.7
17.5°	1534.4	1534.4	1536.9	1524.8	1516.4
20°	1494.6	1496.6	1496.6	1487.0	1477.3
22.5°	1448.5	1454.3	1456.2	1446.0	1434.4
25°	1394.1	1405.0	1411.4	1401.1	1388.9
27.5°	1328.1	1344.7	1364.0	1356.3	1342.8
30°	1254.4	1278.7	1310.8	1304.4	1294.8
32.5°	1184.6	1208.9	1253.1	1250.6	1245.4
35°	1121.1	1136.5	1188.4	1194.8	1190.3
37.5°	1060.9	1075.0	1123.7	1138.4	1134.6
40°	997.5	1012.9	1051.3	1077.6	1078.9
42.5°	934.7	949.4	980.8	1018.6	1018.6
45°	868.1	882.8	911.6	953.3	958.4
47.5°	802.7	818.1	846.3	887.9	896.3
50°	738.7	752.8	781.0	821.3	834.1
52.5°	672.0	687.4	715.0	752.1	770.7
55°	608.0	618.2	648.3	684.2	704.1
57.5°	541.4	551.0	584.9	615.7	636.2
60°	477.3	489.5	515.7	547.1	570.8
62.5°	415.8	428.6	451.0	478.6	505.5
65°	356.2	365.8	387.6	415.1	438.8
67.5°	298.5	306.9	328.7	347.9	372.9
70°	240.2	251.1	267.2	285.7	301.7
72.5°	193.5	198.0	211.4	224.9	241.5
75°	142.9	150.6	161.4	169.1	178.7
77.5°	102.5	107.0	113.4	119.8	128.8
80°	68.5	70.5	76.2	77.5	84.6
82.5°	41.6	42.9	44.2	44.8	47.4
85°	22.4	22.4	22.4	21.1	21.1
87.5°	12.8	12.8	10.9	9.0	6.4
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)