

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: P555984

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-82-84-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: P555984
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-82-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

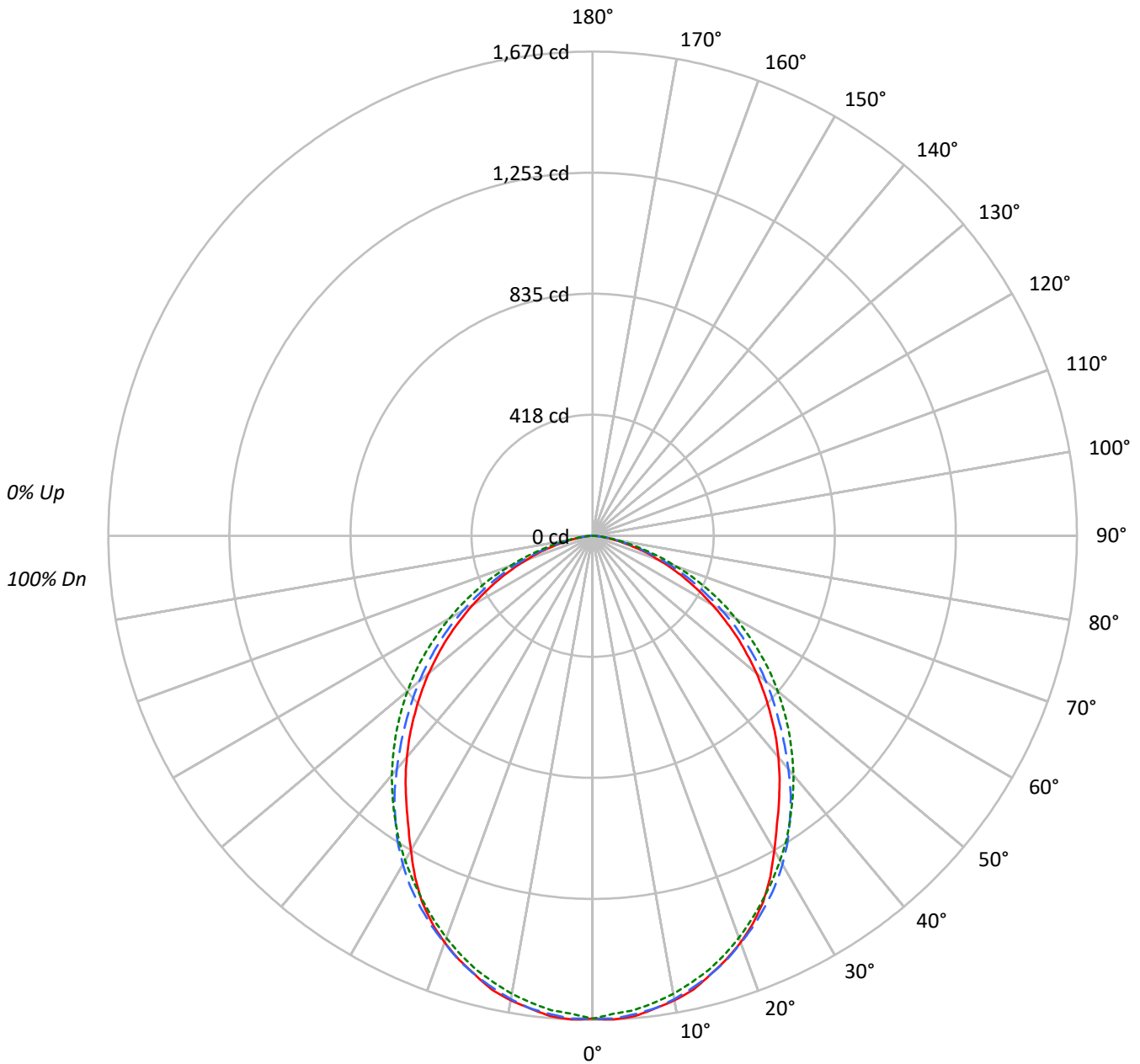
Lumens per Lamp: N/A
Luminaire Lumens: 3851.0 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	8964	8964	8964
5°	8987	8949	8873
10°	8892	8867	8766
15°	8734	8734	8635
20°	8549	8560	8450
25°	8268	8370	8237
30°	7786	8135	8036
35°	7357	7798	7811
40°	6999	7376	7570
45°	6599	6930	7285
50°	6177	6530	6975
55°	5697	6076	6598
60°	5131	5544	6137
65°	4530	4930	5582
70°	3775	4198	4743
75°	2967	3352	3712
80°	2123	2359	2619
85°	1383	1383	1303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.8	4.1
10°-20°	440.5	11.4
20°-30°	643.7	16.7
30°-40°	730.7	19.0
40°-50°	705.4	18.3
50°-60°	581.9	15.1
60°-70°	387.5	10.1
70°-80°	173.4	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°	1241.1	32.2
0°-40°	1971.8	51.2
0°-60°	3259.1	84.6
0°-90°	3851.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3851.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1666	1666	1666	1666	1666	
5°	1664	1663	1656	1648	1642	157
15°	1568	1571	1568	1560	1550	442
25°	1392	1403	1410	1399	1387	638
35°	1120	1135	1187	1193	1189	702
45°	867	882	910	952	957	669
55°	607	617	648	683	703	542
65°	356	365	387	415	438	353
75°	143	150	161	169	178	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°	1665.5	1665.5	1665.5	1665.5	1665.5
2.5°	1669.9	1670.6	1666.7	1656.5	1650.1
5°	1663.5	1662.9	1656.5	1647.5	1642.4
7.5°	1645.0	1646.3	1644.3	1631.5	1624.5
10°	1627.1	1627.7	1622.6	1612.4	1604.0
12.5°	1604.0	1603.4	1596.4	1591.2	1577.8
15°	1567.6	1571.4	1567.6	1560.5	1549.7
17.5°	1532.4	1532.4	1534.9	1522.8	1514.5
20°	1492.7	1494.6	1494.6	1485.0	1475.4
22.5°	1446.6	1452.4	1454.3	1444.1	1432.6
25°	1392.3	1403.1	1409.5	1399.3	1387.1
27.5°	1326.4	1343.0	1362.2	1354.5	1341.1
30°	1252.8	1277.1	1309.1	1302.7	1293.1
32.5°	1183.0	1207.3	1251.5	1248.9	1243.8
35°	1119.7	1135.0	1186.9	1193.3	1188.8
37.5°	1059.5	1073.6	1122.2	1137.0	1133.1
40°	996.2	1011.6	1049.9	1076.2	1077.5
42.5°	933.5	948.2	979.6	1017.3	1017.3
45°	867.0	881.7	910.5	952.1	957.2
47.5°	801.7	817.1	845.2	886.8	895.1
50°	737.7	751.8	779.9	820.3	833.0
52.5°	671.2	686.5	714.0	751.2	769.7
55°	607.2	617.4	647.5	683.3	703.2
57.5°	540.7	550.2	584.2	614.9	635.3
60°	476.7	488.8	515.1	546.4	570.1
62.5°	415.2	428.0	450.4	477.9	504.8
65°	355.7	365.3	387.1	414.6	438.3
67.5°	298.2	306.5	328.2	347.4	372.4
70°	239.9	250.8	266.8	285.4	301.4
72.5°	193.2	197.7	211.1	224.6	241.2
75°	142.7	150.4	161.2	168.9	178.5
77.5°	102.4	106.9	113.2	119.6	128.6
80°	68.5	70.4	76.1	77.4	84.5
82.5°	41.6	42.9	44.1	44.8	47.3
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)