

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: P555916

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-81-96-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: P555916
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-30-UNV-81-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

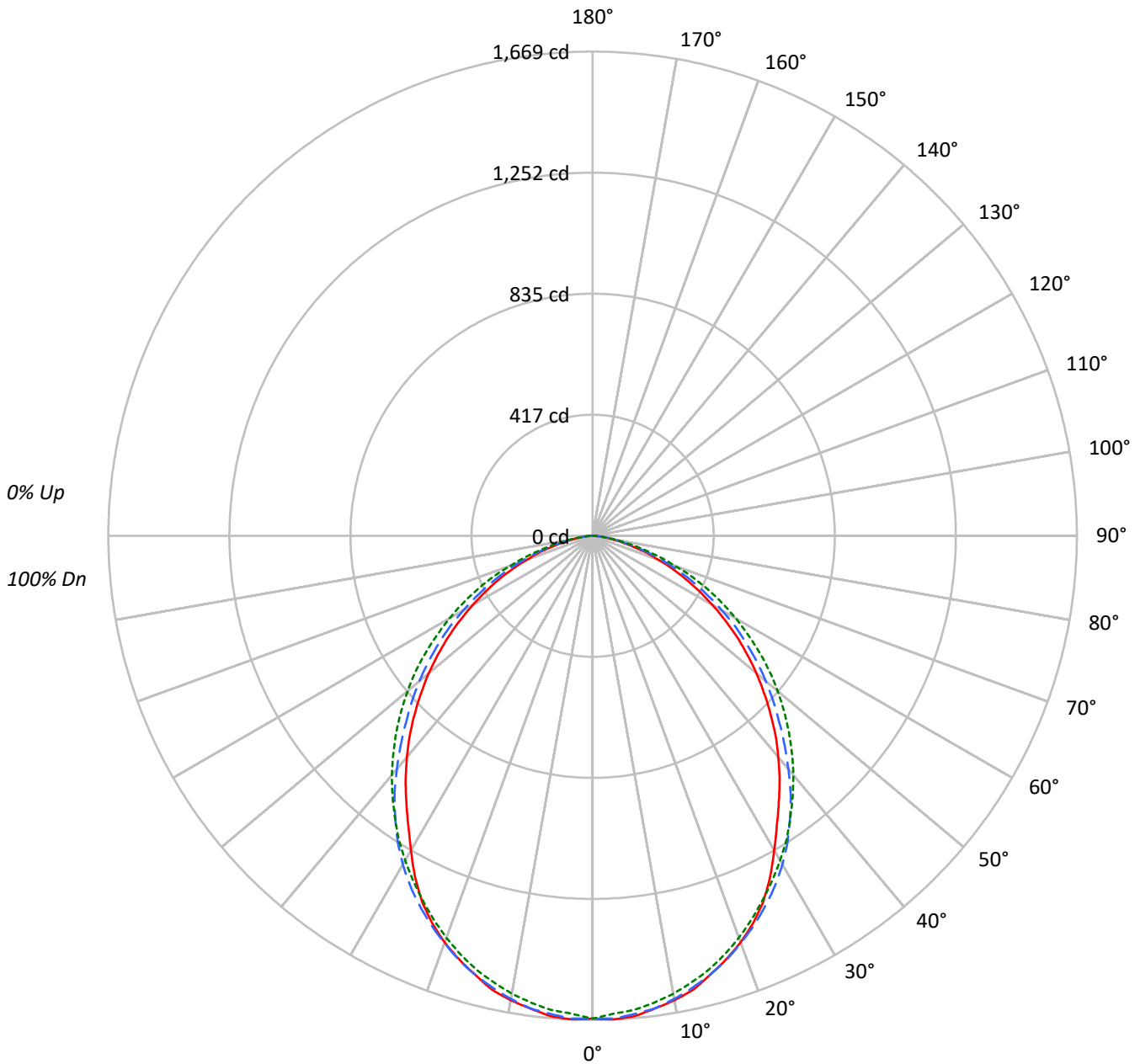
Lumens per Lamp: N/A
Luminaire Lumens: 3848.0 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (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°	8957	8957	8957
5°	8980	8942	8866
10°	8885	8860	8759
15°	8727	8727	8627
20°	8542	8554	8444
25°	8261	8364	8231
30°	7779	8129	8030
35°	7351	7792	7805
40°	6993	7371	7564
45°	6594	6925	7279
50°	6172	6525	6970
55°	5693	6071	6593
60°	5127	5540	6131
65°	4527	4926	5577
70°	3772	4195	4738
75°	2965	3350	3710
80°	2120	2359	2616
85°	1383	1383	1303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	4.1
10°-20°	440.2	11.4
20°-30°	643.2	16.7
30°-40°	730.1	19.0
40°-50°	704.8	18.3
50°-60°	581.4	15.1
60°-70°	387.2	10.1
70°-80°	173.3	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°	1240.1	32.2
0°-40°	1970.2	51.2
0°-60°	3256.5	84.6
0°-90°	3848.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3848.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1664	1664	1664	1664	1664	
5°	1662	1662	1655	1646	1641	157
15°	1566	1570	1566	1559	1548	442
25°	1391	1402	1408	1398	1386	637
35°	1119	1134	1186	1192	1188	701
45°	866	881	910	951	956	668
55°	607	617	647	683	703	542
65°	356	365	387	414	438	352
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°	1664.2	1664.2	1664.2	1664.2	1664.2
2.5°	1668.6	1669.3	1665.4	1655.2	1648.8
5°	1662.2	1661.6	1655.2	1646.3	1641.1
7.5°	1643.7	1645.0	1643.1	1630.3	1623.2
10°	1625.8	1626.4	1621.3	1611.1	1602.8
12.5°	1602.8	1602.1	1595.1	1590.0	1576.6
15°	1566.3	1570.2	1566.3	1559.3	1548.4
17.5°	1531.2	1531.2	1533.7	1521.6	1513.3
20°	1491.5	1493.5	1493.5	1483.9	1474.3
22.5°	1445.5	1451.3	1453.2	1443.0	1431.4
25°	1391.2	1402.0	1408.4	1398.2	1386.1
27.5°	1325.3	1341.9	1361.1	1353.4	1340.0
30°	1251.8	1276.1	1308.1	1301.7	1292.1
32.5°	1182.1	1206.4	1250.5	1248.0	1242.8
35°	1118.8	1134.2	1185.9	1192.3	1187.9
37.5°	1058.7	1072.8	1121.4	1136.1	1132.2
40°	995.4	1010.8	1049.1	1075.3	1076.6
42.5°	932.8	947.5	978.8	1016.5	1016.5
45°	866.3	881.0	909.8	951.3	956.4
47.5°	801.1	816.4	844.5	886.1	894.4
50°	737.1	751.2	779.3	819.6	832.4
52.5°	670.7	686.0	713.5	750.6	769.1
55°	606.7	616.9	647.0	682.8	702.6
57.5°	540.2	549.8	583.7	614.4	634.8
60°	476.3	488.4	514.7	546.0	569.6
62.5°	414.9	427.7	450.1	477.6	504.4
65°	355.5	365.1	386.8	414.3	437.9
67.5°	297.9	306.2	328.0	347.2	372.1
70°	239.7	250.6	266.6	285.1	301.1
72.5°	193.1	197.6	211.0	224.4	241.0
75°	142.6	150.2	161.1	168.8	178.4
77.5°	102.3	106.8	113.2	119.6	128.5
80°	68.4	70.3	76.1	77.4	84.4
82.5°	41.6	42.8	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)