

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: P554765

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-UNV-81-96-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: P554765
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-LD4-2HI-40-UNV-81-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

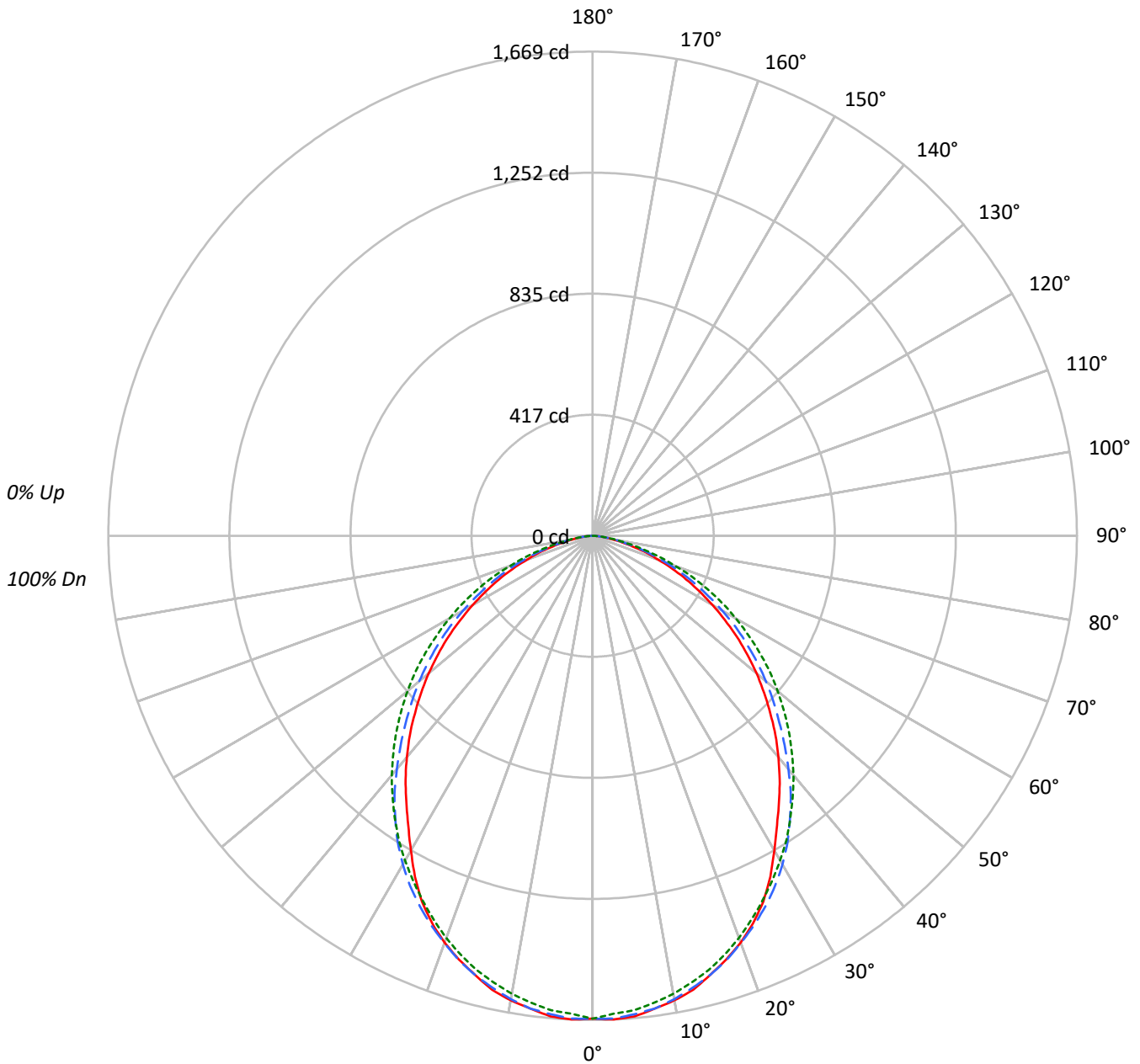
Lumens per Lamp: N/A
Luminaire Lumens: 3849.0 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	8959	8959	8959
5°	8983	8944	8869
10°	8887	8863	8761
15°	8730	8730	8630
20°	8545	8556	8446
25°	8263	8366	8233
30°	7781	8131	8032
35°	7353	7794	7807
40°	6995	7373	7566
45°	6595	6926	7282
50°	6173	6527	6971
55°	5695	6073	6594
60°	5128	5541	6133
65°	4528	4927	5579
70°	3773	4197	4740
75°	2965	3352	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°	440.3	11.4
20°-30°	643.4	16.7
30°-40°	730.3	19.0
40°-50°	705.0	18.3
50°-60°	581.6	15.1
60°-70°	387.3	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°	1240.4	32.2
0°-40°	1970.8	51.2
0°-60°	3257.4	84.6
0°-90°	3849.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3849.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1665	1665	1665	1665	1665	
5°	1663	1662	1656	1647	1642	157
15°	1567	1571	1567	1560	1549	442
25°	1392	1402	1409	1399	1386	637
35°	1119	1134	1186	1193	1188	701
45°	866	881	910	952	957	669
55°	607	617	647	683	703	542
65°	356	365	387	414	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°	1664.6	1664.6	1664.6	1664.6	1664.6
2.5°	1669.1	1669.7	1665.9	1655.6	1649.2
5°	1662.7	1662.0	1655.6	1646.7	1641.6
7.5°	1644.1	1645.4	1643.5	1630.7	1623.7
10°	1626.2	1626.9	1621.7	1611.5	1603.2
12.5°	1603.2	1602.6	1595.5	1590.4	1577.0
15°	1566.8	1570.6	1566.8	1559.7	1548.8
17.5°	1531.6	1531.6	1534.1	1522.0	1513.7
20°	1491.9	1493.8	1493.8	1484.3	1474.7
22.5°	1445.9	1451.6	1453.6	1443.3	1431.8
25°	1391.5	1402.4	1408.8	1398.6	1386.4
27.5°	1325.7	1342.3	1361.5	1353.8	1340.4
30°	1252.1	1276.4	1308.4	1302.0	1292.4
32.5°	1182.4	1206.7	1250.8	1248.3	1243.2
35°	1119.1	1134.5	1186.3	1192.6	1188.2
37.5°	1059.0	1073.1	1121.7	1136.4	1132.5
40°	995.7	1011.0	1049.4	1075.6	1076.9
42.5°	933.0	947.7	979.1	1016.8	1016.8
45°	866.5	881.2	910.0	951.6	956.7
47.5°	801.3	816.6	844.8	886.3	894.6
50°	737.3	751.4	779.5	819.8	832.6
52.5°	670.8	686.2	713.7	750.8	769.3
55°	606.9	617.1	647.2	683.0	702.8
57.5°	540.4	550.0	583.9	614.6	635.0
60°	476.4	488.6	514.8	546.1	569.8
62.5°	415.0	427.8	450.2	477.7	504.6
65°	355.6	365.1	386.9	414.4	438.1
67.5°	298.0	306.3	328.1	347.2	372.2
70°	239.8	250.7	266.7	285.2	301.2
72.5°	193.1	197.6	211.0	224.5	241.1
75°	142.6	150.3	161.2	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)