

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: P554663

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-UNV-93-87-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: P554663
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-30-UNV-93-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

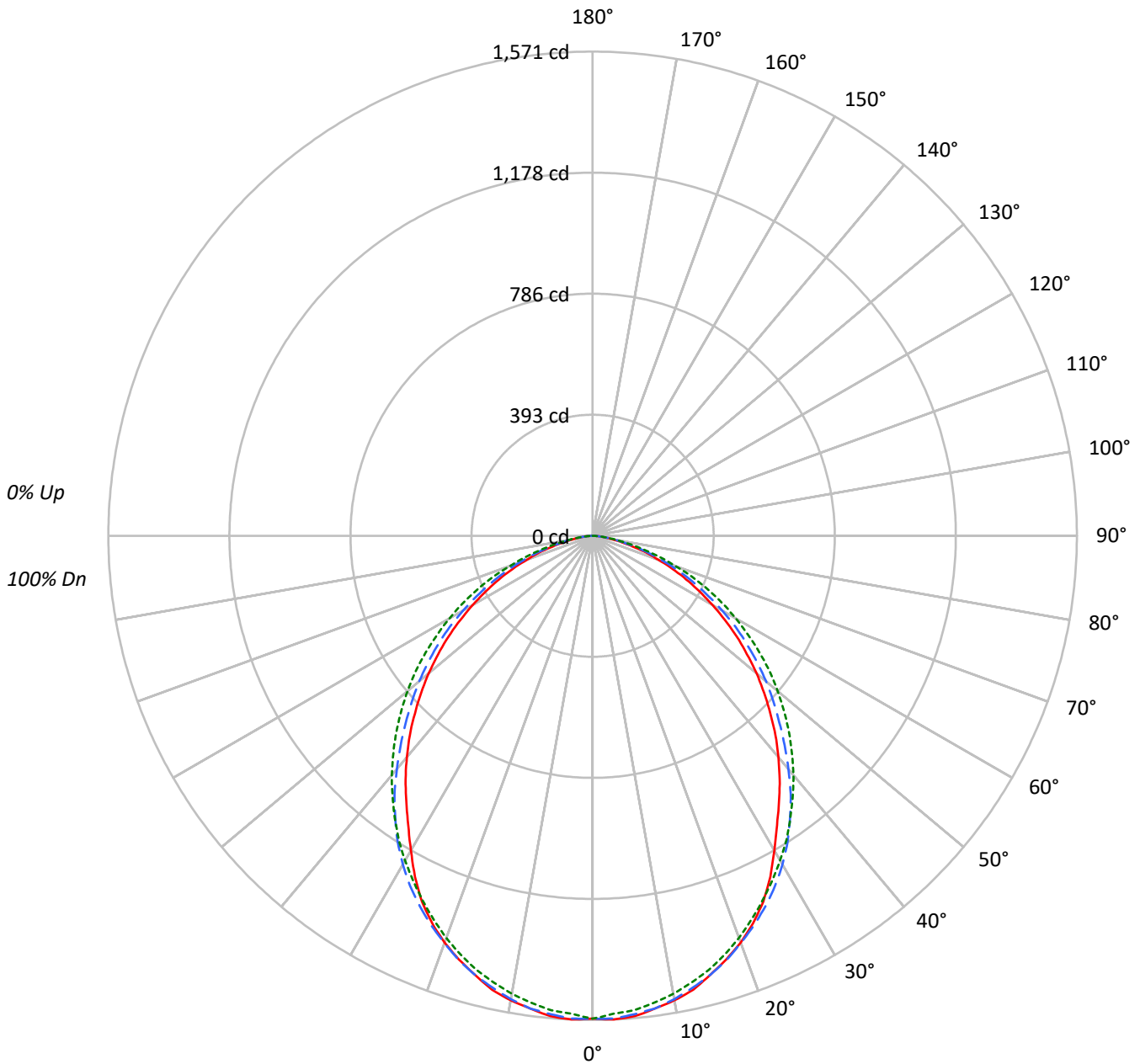
Lumens per Lamp: N/A
Luminaire Lumens: 3623.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	8433	8433	8433
5°	8455	8419	8348
10°	8365	8342	8247
15°	8217	8217	8123
20°	8043	8053	7950
25°	7778	7875	7750
30°	7324	7654	7560
35°	6921	7336	7348
40°	6584	6940	7122
45°	6208	6520	6854
50°	5811	6144	6562
55°	5360	5716	6207
60°	4827	5216	5773
65°	4262	4638	5251
70°	3552	3950	4461
75°	2791	3154	3491
80°	1996	2219	2464
85°	1303	1303	1229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.5	4.1
10°-20°	414.4	11.4
20°-30°	605.6	16.7
30°-40°	687.5	19.0
40°-50°	663.6	18.3
50°-60°	547.5	15.1
60°-70°	364.6	10.1
70°-80°	163.1	4.5
80°-90°	29.2	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°	1167.6	32.2
0°-40°	1855.0	51.2
0°-60°	3066.1	84.6
0°-90°	3623.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3623.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1567	1567	1567	1567	1567	
5°	1565	1564	1558	1550	1545	148
15°	1475	1478	1475	1468	1458	416
25°	1310	1320	1326	1316	1305	600
35°	1053	1068	1117	1123	1118	660
45°	816	830	857	896	900	629
55°	571	581	609	643	662	510
65°	335	344	364	390	412	332
75°	134	142	152	159	168	147
85°	21	21	21	20	20	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1566.9	1566.9	1566.9	1566.9	1566.9
2.5°	1571.1	1571.7	1568.1	1558.4	1552.4
5°	1565.0	1564.4	1558.4	1550.0	1545.2
7.5°	1547.6	1548.8	1547.0	1535.0	1528.3
10°	1530.7	1531.3	1526.5	1516.9	1509.1
12.5°	1509.1	1508.5	1501.8	1497.0	1484.4
15°	1474.8	1478.4	1474.8	1468.1	1457.9
17.5°	1441.7	1441.7	1444.1	1432.6	1424.8
20°	1404.3	1406.1	1406.1	1397.1	1388.1
22.5°	1361.0	1366.4	1368.2	1358.6	1347.7
25°	1309.8	1320.1	1326.1	1316.4	1305.0
27.5°	1247.8	1263.5	1281.5	1274.3	1261.7
30°	1178.6	1201.5	1231.6	1225.6	1216.5
32.5°	1113.0	1135.9	1177.4	1175.0	1170.2
35°	1053.4	1067.8	1116.6	1122.6	1118.4
37.5°	996.8	1010.1	1055.8	1069.7	1066.0
40°	937.2	951.7	987.8	1012.5	1013.7
42.5°	878.2	892.1	921.6	957.1	957.1
45°	815.6	829.5	856.6	895.7	900.5
47.5°	754.2	768.7	795.2	834.3	842.1
50°	694.0	707.3	733.8	771.7	783.7
52.5°	631.4	645.9	671.8	706.7	724.1
55°	571.2	580.9	609.2	642.9	661.5
57.5°	508.6	517.7	549.6	578.5	597.7
60°	448.4	459.9	484.6	514.1	536.3
62.5°	390.7	402.7	423.8	449.7	474.9
65°	334.7	343.7	364.2	390.1	412.3
67.5°	280.5	288.3	308.8	326.9	350.3
70°	225.7	236.0	251.0	268.5	283.5
72.5°	181.8	186.0	198.6	211.3	226.9
75°	134.2	141.5	151.7	158.9	167.9
77.5°	96.3	100.5	106.5	112.6	121.0
80°	64.4	66.2	71.6	72.8	79.5
82.5°	39.1	40.3	41.5	42.1	44.5
85°	21.1	21.1	21.1	19.9	19.9
87.5°	12.0	12.0	10.2	8.4	6.0
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)