

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: P555681

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-93-84-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: P555681
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-LD4-3LO-30-UNV-93-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

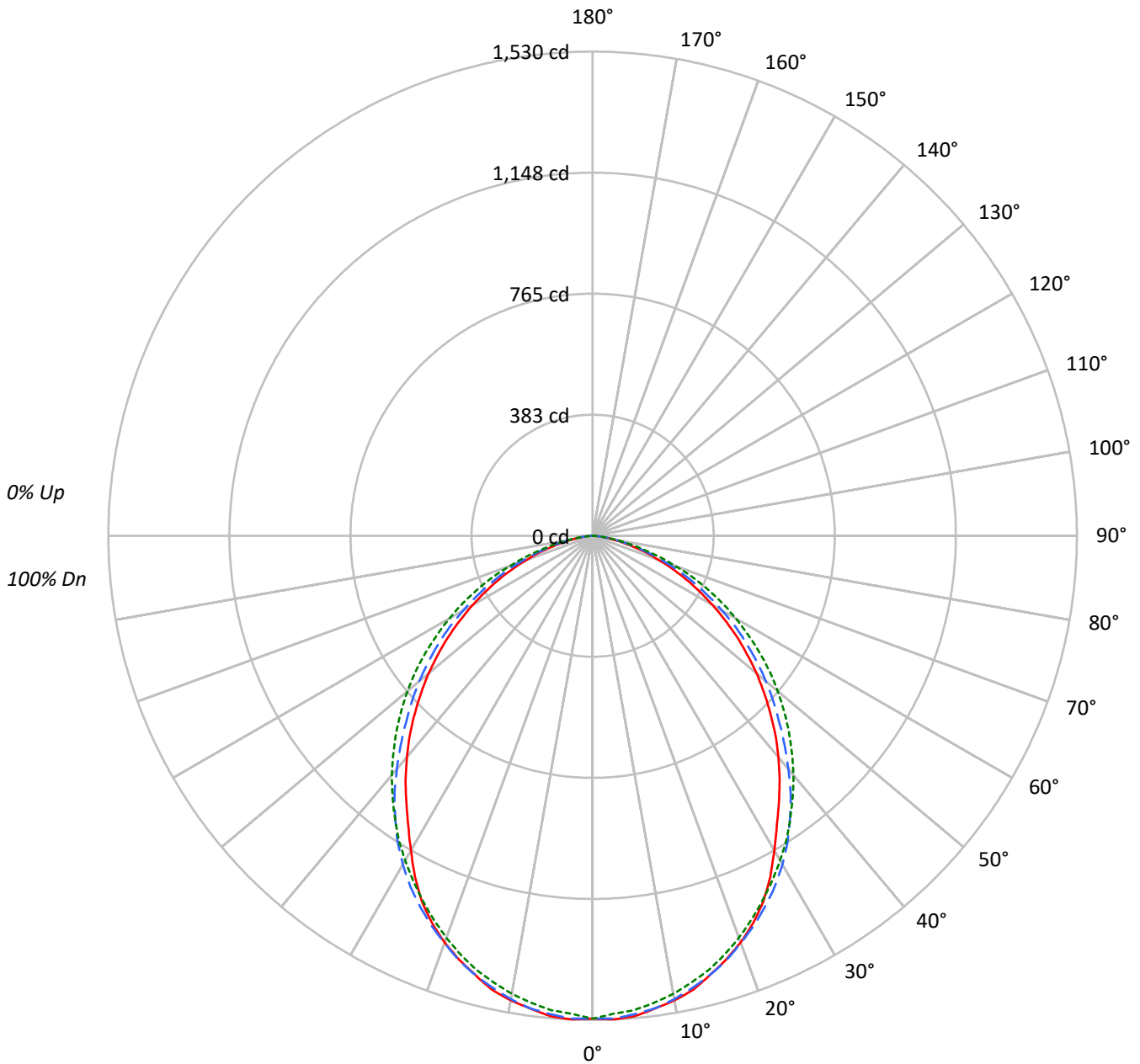
Lumens per Lamp: N/A
Luminaire Lumens: 3528.0 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	8212	8212	8212
5°	8233	8199	8129
10°	8146	8124	8031
15°	8002	8002	7910
20°	7832	7842	7742
25°	7574	7668	7546
30°	7132	7453	7362
35°	6740	7144	7156
40°	6412	6758	6935
45°	6045	6349	6674
50°	5658	5982	6390
55°	5220	5566	6045
60°	4701	5079	5622
65°	4150	4516	5113
70°	3459	3846	4345
75°	2718	3071	3400
80°	1943	2163	2399
85°	1266	1266	1192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.7	4.1
10°-20°	403.6	11.4
20°-30°	589.7	16.7
30°-40°	669.4	19.0
40°-50°	646.2	18.3
50°-60°	533.1	15.1
60°-70°	355.0	10.1
70°-80°	158.8	4.5
80°-90°	28.4	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°	1137.0	32.2
0°-40°	1806.4	51.2
0°-60°	2985.7	84.6
0°-90°	3528.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3528.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1526	1526	1526	1526	1526	
5°	1524	1523	1518	1509	1505	144
15°	1436	1440	1436	1430	1420	405
25°	1276	1285	1291	1282	1271	584
35°	1026	1040	1087	1093	1089	643
45°	794	808	834	872	877	613
55°	556	566	593	626	644	496
65°	326	335	355	380	402	323
75°	131	138	148	155	164	143
85°	20	20	20	19	19	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1525.8	1525.8	1525.8	1525.8	1525.8
2.5°	1529.9	1530.5	1526.9	1517.6	1511.7
5°	1524.0	1523.4	1517.6	1509.4	1504.7
7.5°	1507.0	1508.2	1506.4	1494.7	1488.3
10°	1490.6	1491.2	1486.5	1477.1	1469.5
12.5°	1469.5	1468.9	1462.5	1457.8	1445.5
15°	1436.1	1439.6	1436.1	1429.6	1419.7
17.5°	1403.8	1403.8	1406.2	1395.1	1387.4
20°	1367.5	1369.3	1369.3	1360.5	1351.7
22.5°	1325.3	1330.6	1332.3	1323.0	1312.4
25°	1275.5	1285.4	1291.3	1281.9	1270.8
27.5°	1215.1	1230.3	1247.9	1240.9	1228.6
30°	1147.7	1170.0	1199.3	1193.4	1184.6
32.5°	1083.8	1106.1	1146.5	1144.2	1139.5
35°	1025.8	1039.8	1087.3	1093.2	1089.1
37.5°	970.7	983.6	1028.1	1041.6	1038.1
40°	912.6	926.7	961.9	985.9	987.1
42.5°	855.2	868.7	897.4	932.0	932.0
45°	794.2	807.7	834.1	872.2	876.9
47.5°	734.5	748.5	774.3	812.4	820.0
50°	675.8	688.7	714.5	751.5	763.2
52.5°	614.9	628.9	654.2	688.1	705.1
55°	556.3	565.6	593.2	626.0	644.2
57.5°	495.3	504.1	535.2	563.3	582.1
60°	436.7	447.8	471.9	500.6	522.3
62.5°	380.4	392.1	412.7	437.9	462.5
65°	325.9	334.7	354.6	379.8	401.5
67.5°	273.1	280.8	300.7	318.3	341.1
70°	219.8	229.8	244.4	261.4	276.1
72.5°	177.0	181.1	193.4	205.7	221.0
75°	130.7	137.7	147.7	154.7	163.5
77.5°	93.8	97.9	103.7	109.6	117.8
80°	62.7	64.5	69.8	70.9	77.4
82.5°	38.1	39.3	40.4	41.0	43.4
85°	20.5	20.5	20.5	19.3	19.3
87.5°	11.7	11.7	10.0	8.2	5.9
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)