

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: P555876

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-93-86-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: P555876
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-50-UNV-93-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

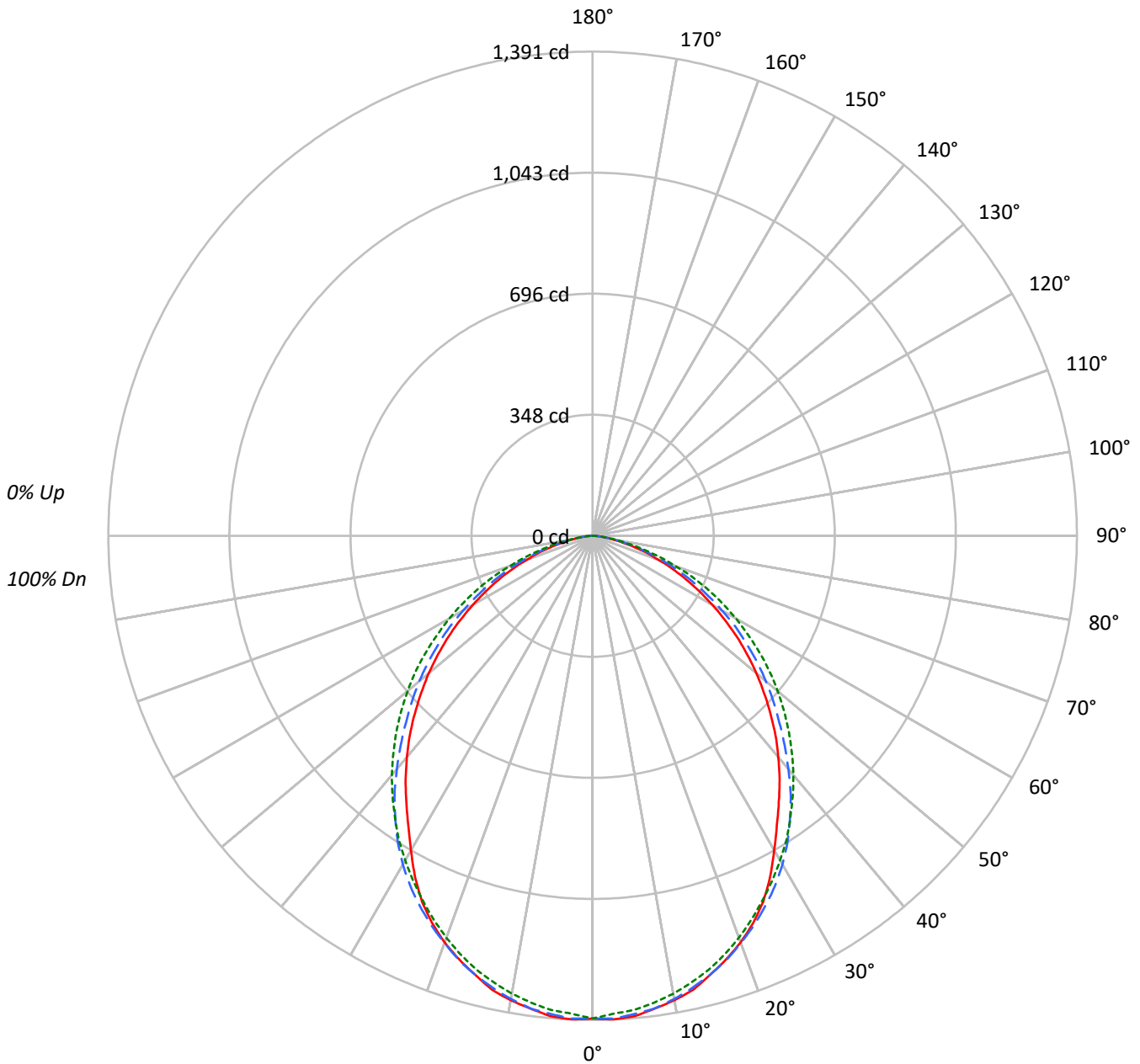
Lumens per Lamp: N/A
Luminaire Lumens: 3207.0 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7464	7464	7464
5°	7484	7453	7390
10°	7405	7384	7300
15°	7273	7273	7190
20°	7120	7129	7037
25°	6885	6970	6860
30°	6484	6775	6692
35°	6126	6494	6504
40°	5828	6143	6304
45°	5495	5771	6067
50°	5143	5438	5808
55°	4745	5059	5495
60°	4273	4617	5110
65°	3773	4106	4648
70°	3144	3496	3950
75°	2470	2793	3092
80°	1767	1965	2179
85°	1149	1149	1087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	4.1
10°-20°	366.8	11.4
20°-30°	536.1	16.7
30°-40°	608.5	19.0
40°-50°	587.4	18.3
50°-60°	484.6	15.1
60°-70°	322.7	10.1
70°-80°	144.4	4.5
80°-90°	25.8	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°	1033.5	32.2
0°-40°	1642.0	51.2
0°-60°	2714.1	84.6
0°-90°	3207.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3207.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1387	1387	1387	1387	1387	
5°	1385	1385	1380	1372	1368	131
15°	1305	1309	1305	1300	1290	368
25°	1159	1168	1174	1165	1155	531
35°	932	945	988	994	990	584
45°	722	734	758	793	797	557
55°	506	514	539	569	586	451
65°	296	304	322	345	365	294
75°	119	125	134	141	149	130
85°	19	19	19	18	18	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1386.9	1386.9	1386.9	1386.9	1386.9
2.5°	1390.7	1391.2	1388.0	1379.5	1374.2
5°	1385.3	1384.8	1379.5	1372.0	1367.8
7.5°	1369.9	1371.0	1369.4	1358.7	1352.8
10°	1355.0	1355.5	1351.2	1342.7	1335.8
12.5°	1335.8	1335.3	1329.4	1325.1	1313.9
15°	1305.4	1308.6	1305.4	1299.6	1290.5
17.5°	1276.1	1276.1	1278.2	1268.1	1261.2
20°	1243.1	1244.7	1244.7	1236.7	1228.7
22.5°	1204.7	1209.5	1211.1	1202.6	1193.0
25°	1159.4	1168.5	1173.8	1165.3	1155.2
27.5°	1104.5	1118.4	1134.4	1128.0	1116.8
30°	1043.3	1063.5	1090.2	1084.8	1076.8
32.5°	985.2	1005.4	1042.2	1040.1	1035.8
35°	932.4	945.2	988.4	993.7	990.0
37.5°	882.4	894.1	934.6	946.8	943.6
40°	829.6	842.4	874.4	896.2	897.3
42.5°	777.4	789.6	815.8	847.2	847.2
45°	722.0	734.2	758.2	792.8	797.1
47.5°	667.6	680.4	703.9	738.5	745.4
50°	614.3	626.1	649.5	683.1	693.7
52.5°	558.9	571.7	594.6	625.5	641.0
55°	505.7	514.2	539.2	569.1	585.6
57.5°	450.2	458.2	486.5	512.0	529.1
60°	397.0	407.1	428.9	455.0	474.7
62.5°	345.8	356.5	375.1	398.0	420.4
65°	296.3	304.2	322.4	345.3	365.0
67.5°	248.3	255.2	273.3	289.3	310.1
70°	199.8	208.9	222.2	237.6	251.0
72.5°	160.9	164.6	175.8	187.0	200.9
75°	118.8	125.2	134.3	140.7	148.7
77.5°	85.3	89.0	94.3	99.6	107.1
80°	57.0	58.6	63.4	64.5	70.3
82.5°	34.6	35.7	36.8	37.3	39.4
85°	18.6	18.6	18.6	17.6	17.6
87.5°	10.7	10.7	9.1	7.5	5.3
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)