

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: P555824

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-80-84-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: P555824
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-80-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

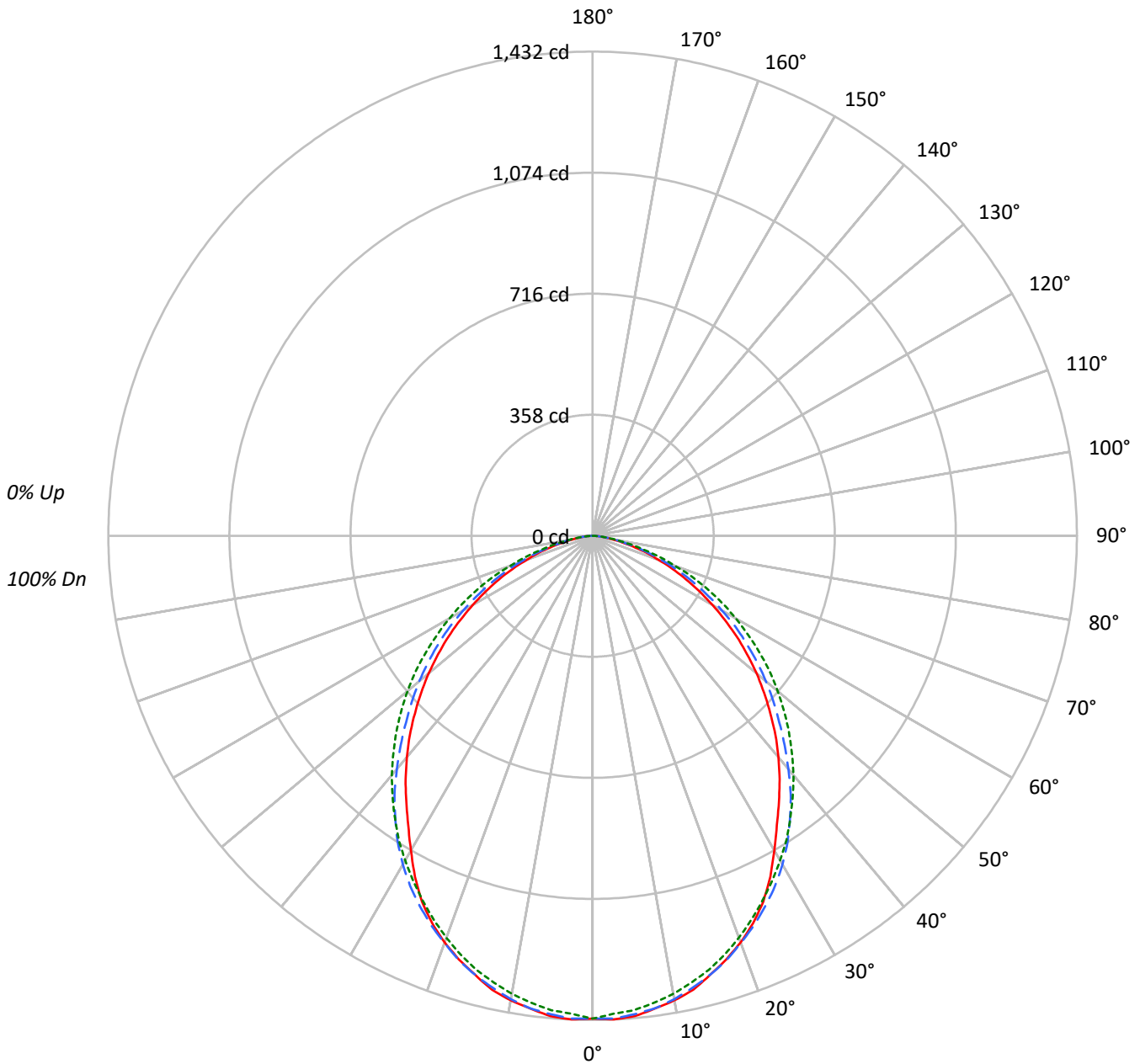
Lumens per Lamp: N/A
Luminaire Lumens: 3302.0 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (Ain): 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°	7685	7685	7685
5°	7706	7673	7608
10°	7624	7603	7517
15°	7489	7489	7403
20°	7330	7340	7246
25°	7089	7177	7063
30°	6676	6976	6890
35°	6308	6686	6697
40°	6001	6325	6491
45°	5658	5942	6247
50°	5296	5600	5981
55°	4885	5210	5657
60°	4399	4753	5261
65°	3884	4227	4786
70°	3237	3600	4066
75°	2543	2874	3184
80°	1819	2024	2244
85°	1186	1186	1118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	4.1
10°-20°	377.7	11.4
20°-30°	552.0	16.7
30°-40°	626.6	19.0
40°-50°	604.8	18.3
50°-60°	498.9	15.1
60°-70°	332.3	10.1
70°-80°	148.7	4.5
80°-90°	26.6	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°	1064.1	32.2
0°-40°	1690.7	51.2
0°-60°	2794.5	84.6
0°-90°	3302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3302.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1426	1426	1420	1413	1408	135
15°	1344	1347	1344	1338	1329	379
25°	1194	1203	1209	1200	1189	547
35°	960	973	1018	1023	1019	602
45°	743	756	781	816	821	574
55°	521	529	555	586	603	465
65°	305	313	332	356	376	302
75°	122	129	138	145	153	134
85°	19	19	19	18	18	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1428.0	1428.0	1428.0	1428.0	1428.0
2.5°	1431.9	1432.4	1429.1	1420.3	1414.9
5°	1426.4	1425.8	1420.3	1412.7	1408.3
7.5°	1410.5	1411.6	1409.9	1399.0	1392.9
10°	1395.1	1395.7	1391.3	1382.5	1375.4
12.5°	1375.4	1374.8	1368.8	1364.4	1352.9
15°	1344.1	1347.4	1344.1	1338.1	1328.7
17.5°	1313.9	1313.9	1316.1	1305.7	1298.6
20°	1279.9	1281.6	1281.6	1273.3	1265.1
22.5°	1240.4	1245.3	1247.0	1238.2	1228.3
25°	1193.8	1203.1	1208.6	1199.8	1189.4
27.5°	1137.3	1151.5	1168.0	1161.4	1149.9
30°	1074.2	1095.0	1122.5	1117.0	1108.7
32.5°	1014.4	1035.2	1073.1	1070.9	1066.5
35°	960.1	973.2	1017.7	1023.2	1019.3
37.5°	908.5	920.6	962.3	974.9	971.6
40°	854.2	867.4	900.3	922.8	923.9
42.5°	800.4	813.0	839.9	872.3	872.3
45°	743.4	756.0	780.7	816.3	820.7
47.5°	687.4	700.6	724.7	760.4	767.5
50°	632.5	644.6	668.8	703.3	714.3
52.5°	575.5	588.7	612.2	644.1	660.0
55°	520.6	529.4	555.2	585.9	602.9
57.5°	463.6	471.8	500.9	527.2	544.8
60°	408.7	419.1	441.6	468.5	488.8
62.5°	356.0	367.0	386.2	409.8	432.9
65°	305.0	313.3	331.9	355.5	375.8
67.5°	255.7	262.8	281.4	297.9	319.3
70°	205.7	215.1	228.8	244.7	258.4
72.5°	165.7	169.5	181.0	192.6	206.8
75°	122.3	128.9	138.2	144.8	153.1
77.5°	87.8	91.6	97.1	102.6	110.3
80°	58.7	60.3	65.3	66.4	72.4
82.5°	35.7	36.8	37.9	38.4	40.6
85°	19.2	19.2	19.2	18.1	18.1
87.5°	11.0	11.0	9.3	7.7	5.5
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)