

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: P555316

Luminaire Tested: **FUSL-12-2-LD4-2STD-50-UNV-80-86-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: P555316
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-LD4-2STD-50-UNV-80-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC 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

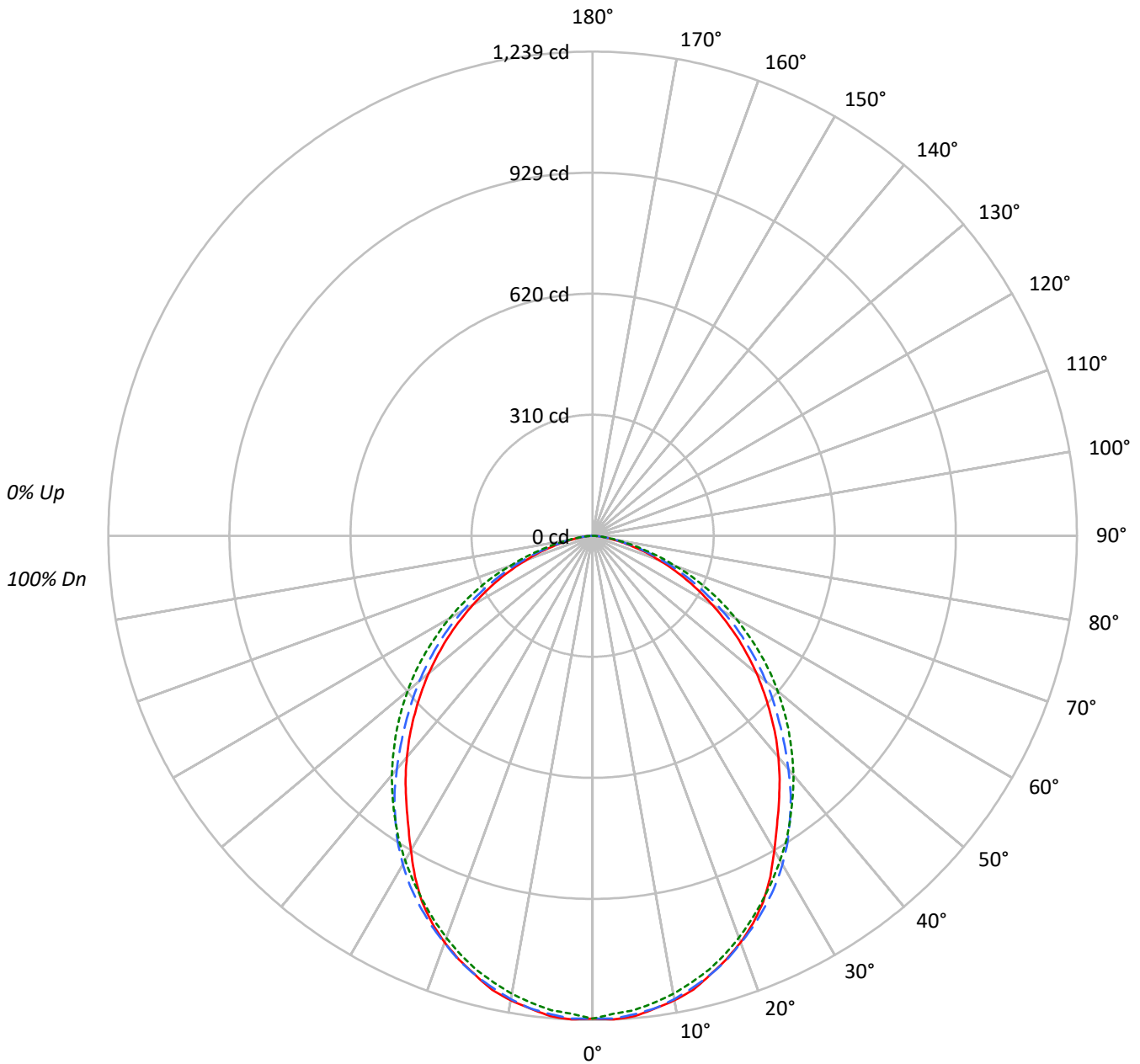
Lumens per Lamp: N/A
Luminaire Lumens: 2857.0 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	6650	6650	6650
5°	6668	6639	6583
10°	6597	6579	6503
15°	6480	6480	6406
20°	6342	6350	6269
25°	6134	6210	6111
30°	5776	6036	5962
35°	5458	5785	5794
40°	5193	5472	5616
45°	4896	5141	5405
50°	4582	4845	5174
55°	4227	4508	4895
60°	3806	4113	4552
65°	3361	3657	4141
70°	2801	3114	3519
75°	2202	2487	2753
80°	1574	1751	1943
85°	1025	1025	969



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	4.1
10°-20°	326.8	11.4
20°-30°	477.6	16.7
30°-40°	542.1	19.0
40°-50°	523.3	18.3
50°-60°	431.7	15.1
60°-70°	287.5	10.1
70°-80°	128.6	4.5
80°-90°	23.0	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°	920.7	32.2
0°-40°	1462.8	51.2
0°-60°	2417.9	84.6
0°-90°	2857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2857.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1236	1236	1236	1236	1236	
5°	1234	1234	1229	1222	1218	117
15°	1163	1166	1163	1158	1150	328
25°	1033	1041	1046	1038	1029	473
35°	831	842	880	885	882	520
45°	643	654	676	706	710	496
55°	450	458	480	507	522	402
65°	264	271	287	308	325	262
75°	106	112	120	125	132	116
85°	17	17	17	16	16	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1235.6	1235.6	1235.6	1235.6	1235.6
2.5°	1238.9	1239.4	1236.5	1228.9	1224.2
5°	1234.2	1233.7	1228.9	1222.3	1218.5
7.5°	1220.4	1221.3	1219.9	1210.4	1205.2
10°	1207.1	1207.6	1203.8	1196.2	1190.0
12.5°	1190.0	1189.5	1184.3	1180.5	1170.5
15°	1163.0	1165.8	1163.0	1157.7	1149.7
17.5°	1136.8	1136.8	1138.7	1129.7	1123.6
20°	1107.4	1108.8	1108.8	1101.7	1094.6
22.5°	1073.2	1077.5	1078.9	1071.3	1062.8
25°	1032.9	1041.0	1045.7	1038.1	1029.1
27.5°	984.0	996.3	1010.6	1004.9	994.9
30°	929.4	947.5	971.2	966.4	959.3
32.5°	877.7	895.7	928.5	926.6	922.8
35°	830.7	842.1	880.5	885.3	881.9
37.5°	786.1	796.5	832.6	843.5	840.6
40°	739.1	750.5	778.9	798.4	799.4
42.5°	692.6	703.5	726.7	754.7	754.7
45°	643.2	654.1	675.5	706.3	710.1
47.5°	594.8	606.2	627.0	657.9	664.1
50°	547.3	557.7	578.6	608.5	618.0
52.5°	497.9	509.3	529.7	557.3	571.0
55°	450.5	458.1	480.4	507.0	521.7
57.5°	401.1	408.2	433.4	456.2	471.4
60°	353.6	362.7	382.1	405.4	422.9
62.5°	308.1	317.6	334.2	354.6	374.5
65°	263.9	271.0	287.2	307.6	325.2
67.5°	221.2	227.4	243.5	257.7	276.3
70°	178.0	186.1	197.9	211.7	223.6
72.5°	143.4	146.7	156.6	166.6	179.0
75°	105.9	111.5	119.6	125.3	132.4
77.5°	75.9	79.3	84.0	88.8	95.4
80°	50.8	52.2	56.5	57.4	62.7
82.5°	30.9	31.8	32.8	33.2	35.1
85°	16.6	16.6	16.6	15.7	15.7
87.5°	9.5	9.5	8.1	6.6	4.7
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)