

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: P555318

Luminaire Tested: **FUSL-12-2-LD4-2STD-50-UNV-80-87-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: P555318
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-80-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

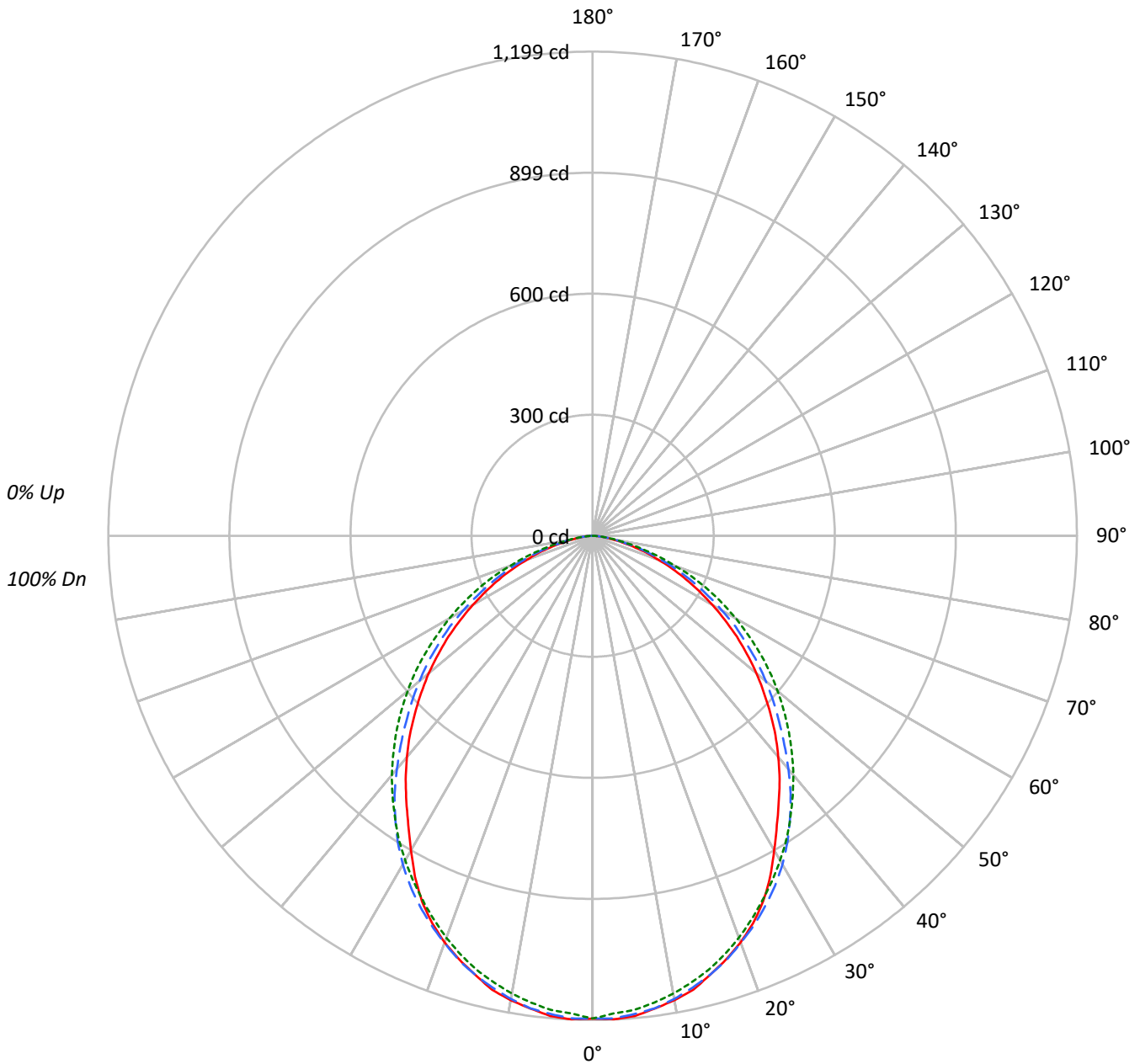
Lumens per Lamp: N/A
Luminaire Lumens: 2764.0 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (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°	6434	6434	6434
5°	6451	6423	6368
10°	6382	6365	6292
15°	6269	6269	6197
20°	6136	6144	6065
25°	5934	6008	5912
30°	5588	5839	5768
35°	5280	5597	5606
40°	5023	5295	5433
45°	4736	4974	5229
50°	4433	4687	5006
55°	4089	4360	4736
60°	3682	3979	4405
65°	3251	3538	4006
70°	2710	3013	3404
75°	2129	2406	2664
80°	1522	1692	1878
85°	994	994	939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	4.1
10°-20°	316.2	11.4
20°-30°	462.0	16.7
30°-40°	524.5	19.0
40°-50°	506.3	18.3
50°-60°	417.6	15.1
60°-70°	278.1	10.1
70°-80°	124.4	4.5
80°-90°	22.3	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°	890.8	32.2
0°-40°	1415.2	51.2
0°-60°	2339.2	84.6
0°-90°	2764.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2764.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1195	1195	1195	1195	1195	
5°	1194	1194	1189	1182	1179	113
15°	1125	1128	1125	1120	1112	317
25°	999	1007	1012	1004	996	458
35°	804	815	852	856	853	504
45°	622	633	654	683	687	480
55°	436	443	465	490	505	389
65°	255	262	278	298	315	253
75°	102	108	116	121	128	112
85°	16	16	16	15	15	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1195.4	1195.4	1195.4	1195.4	1195.4
2.5°	1198.6	1199.0	1196.3	1188.9	1184.3
5°	1194.0	1193.5	1188.9	1182.5	1178.8
7.5°	1180.7	1181.6	1180.2	1171.0	1166.0
10°	1167.8	1168.3	1164.6	1157.2	1151.3
12.5°	1151.3	1150.8	1145.8	1142.1	1132.4
15°	1125.1	1127.9	1125.1	1120.0	1112.2
17.5°	1099.8	1099.8	1101.7	1093.0	1087.0
20°	1071.4	1072.7	1072.7	1065.9	1059.0
22.5°	1038.3	1042.4	1043.8	1036.5	1028.2
25°	999.3	1007.1	1011.7	1004.3	995.6
27.5°	952.0	963.9	977.7	972.2	962.5
30°	899.2	916.6	939.6	935.0	928.1
32.5°	849.1	866.6	898.2	896.4	892.7
35°	803.6	814.7	851.9	856.5	853.2
37.5°	760.5	770.6	805.5	816.0	813.3
40°	715.0	726.0	753.6	772.4	773.3
42.5°	670.0	680.6	703.1	730.2	730.2
45°	622.2	632.8	653.5	683.3	687.0
47.5°	575.4	586.4	606.6	636.5	642.5
50°	529.5	539.6	559.8	588.7	597.9
52.5°	481.7	492.7	512.5	539.1	552.4
55°	435.8	443.2	464.7	490.5	504.7
57.5°	388.0	394.9	419.3	441.3	456.0
60°	342.1	350.8	369.7	392.2	409.2
62.5°	298.0	307.2	323.3	343.0	362.3
65°	255.3	262.2	277.8	297.6	314.6
67.5°	214.0	220.0	235.6	249.4	267.3
70°	172.2	180.0	191.5	204.8	216.3
72.5°	138.7	141.9	151.5	161.2	173.1
75°	102.4	107.9	115.7	121.2	128.1
77.5°	73.5	76.7	81.3	85.9	92.3
80°	49.1	50.5	54.6	55.6	60.6
82.5°	29.8	30.8	31.7	32.1	34.0
85°	16.1	16.1	16.1	15.2	15.2
87.5°	9.2	9.2	7.8	6.4	4.6
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)