

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: P555133

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-UNV-80-96-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: P555133
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-30-UNV-80-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

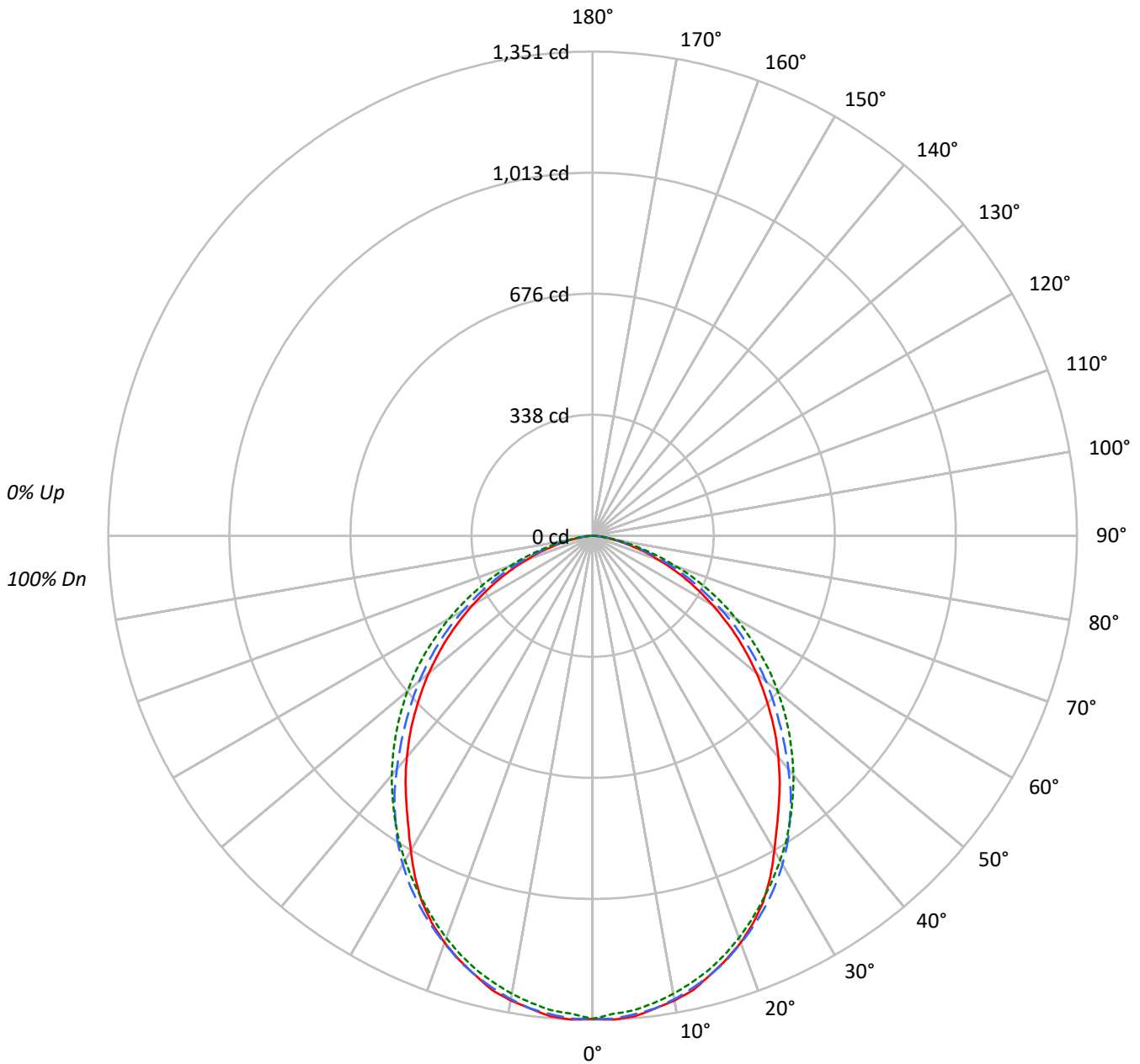
Lumens per Lamp: N/A
Luminaire Lumens: 3116.0 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7253	7253	7253
5°	7272	7241	7180
10°	7195	7175	7093
15°	7067	7067	6986
20°	6918	6927	6837
25°	6690	6773	6665
30°	6300	6582	6502
35°	5953	6309	6320
40°	5663	5969	6125
45°	5339	5607	5895
50°	4998	5284	5644
55°	4610	4916	5339
60°	4152	4486	4965
65°	3665	3989	4516
70°	3054	3397	3836
75°	2400	2714	3003
80°	1717	1909	2117
85°	1118	1118	1056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.9	4.1
10°-20°	356.4	11.4
20°-30°	520.9	16.7
30°-40°	591.3	19.0
40°-50°	570.8	18.3
50°-60°	470.8	15.1
60°-70°	313.5	10.1
70°-80°	140.3	4.5
80°-90°	25.1	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°	1004.2	32.2
0°-40°	1595.5	51.2
0°-60°	2637.1	84.6
0°-90°	3116.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3116.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1348	1348	1348	1348	1348	
5°	1346	1346	1340	1333	1329	127
15°	1268	1272	1268	1263	1254	358
25°	1126	1135	1140	1132	1122	516
35°	906	918	960	966	962	568
45°	702	713	737	770	774	541
55°	491	500	524	553	569	439
65°	288	296	313	336	355	285
75°	115	122	130	137	144	126
85°	18	18	18	17	17	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1347.6	1347.6	1347.6	1347.6	1347.6
2.5°	1351.2	1351.7	1348.6	1340.3	1335.2
5°	1346.0	1345.5	1340.3	1333.1	1329.0
7.5°	1331.0	1332.1	1330.5	1320.2	1314.5
10°	1316.5	1317.0	1312.9	1304.6	1297.9
12.5°	1297.9	1297.4	1291.7	1287.5	1276.7
15°	1268.4	1271.5	1268.4	1262.7	1253.9
17.5°	1239.9	1239.9	1242.0	1232.1	1225.4
20°	1207.8	1209.4	1209.4	1201.6	1193.8
22.5°	1170.5	1175.2	1176.7	1168.5	1159.1
25°	1126.5	1135.3	1140.5	1132.2	1122.4
27.5°	1073.2	1086.7	1102.2	1096.0	1085.1
30°	1013.7	1033.3	1059.2	1054.1	1046.3
32.5°	957.2	976.9	1012.6	1010.6	1006.4
35°	906.0	918.4	960.3	965.5	961.9
37.5°	857.3	868.7	908.1	920.0	916.9
40°	806.1	818.5	849.6	870.8	871.8
42.5°	755.3	767.2	792.6	823.2	823.2
45°	701.5	713.4	736.7	770.3	774.5
47.5°	648.7	661.1	683.9	717.5	724.3
50°	596.9	608.3	631.1	663.7	674.1
52.5°	543.1	555.5	577.8	607.8	622.8
55°	491.3	499.6	523.9	552.9	569.0
57.5°	437.5	445.2	472.7	497.5	514.1
60°	385.7	395.5	416.8	442.1	461.3
62.5°	336.0	346.3	364.5	386.7	408.5
65°	287.8	295.6	313.2	335.5	354.6
67.5°	241.3	248.0	265.6	281.1	301.3
70°	194.1	202.9	215.9	230.9	243.8
72.5°	156.3	160.0	170.8	181.7	195.2
75°	115.4	121.7	130.5	136.7	144.4
77.5°	82.8	86.5	91.6	96.8	104.1
80°	55.4	56.9	61.6	62.6	68.3
82.5°	33.7	34.7	35.7	36.2	38.3
85°	18.1	18.1	18.1	17.1	17.1
87.5°	10.4	10.4	8.8	7.2	5.2
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)