

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: P555122

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-UNV-80-85-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: P555122
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-80-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

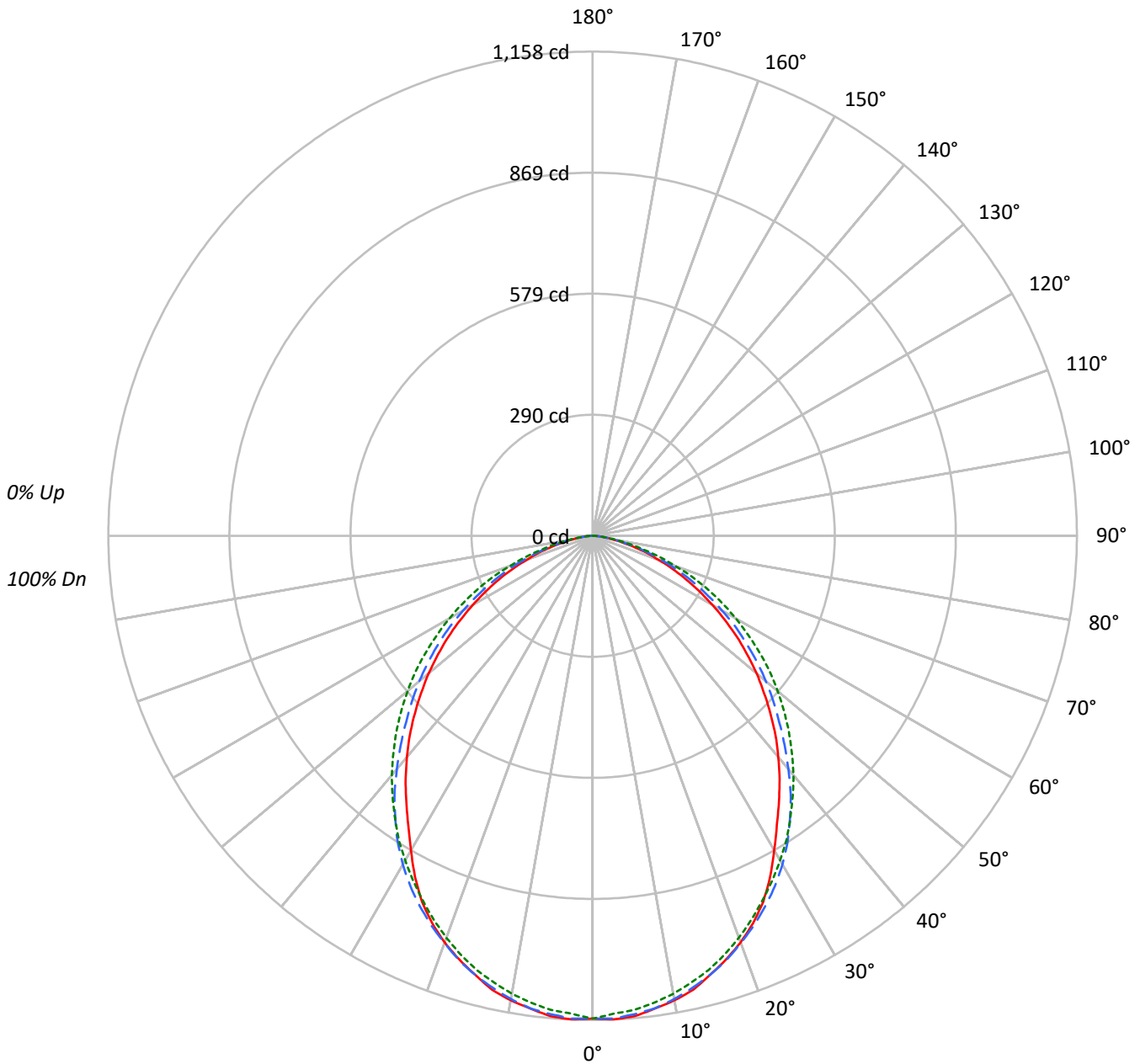
Lumens per Lamp: N/A
Luminaire Lumens: 2670.0 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6215	6215	6215
5°	6231	6205	6152
10°	6165	6148	6078
15°	6055	6055	5986
20°	5927	5935	5859
25°	5732	5804	5711
30°	5398	5640	5571
35°	5100	5407	5415
40°	4853	5115	5248
45°	4575	4805	5051
50°	4283	4528	4836
55°	3950	4212	4574
60°	3557	3844	4255
65°	3140	3418	3870
70°	2618	2911	3287
75°	2057	2325	2574
80°	1472	1636	1816
85°	957	957	902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	4.1
10°-20°	305.4	11.4
20°-30°	446.3	16.7
30°-40°	506.6	19.0
40°-50°	489.1	18.3
50°-60°	403.4	15.1
60°-70°	268.7	10.1
70°-80°	120.2	4.5
80°-90°	21.5	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°	860.5	32.2
0°-40°	1367.1	51.2
0°-60°	2259.6	84.6
0°-90°	2670.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2670.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1155	1155	1155	1155	1155	
5°	1153	1153	1148	1142	1139	109
15°	1087	1090	1087	1082	1074	306
25°	965	973	977	970	962	442
35°	776	787	823	827	824	486
45°	601	611	631	660	664	464
55°	421	428	449	474	488	376
65°	247	253	268	288	304	245
75°	99	104	112	117	124	108
85°	16	16	16	15	15	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1154.7	1154.7	1154.7	1154.7	1154.7
2.5°	1157.8	1158.3	1155.6	1148.5	1144.1
5°	1153.4	1152.9	1148.5	1142.3	1138.7
7.5°	1140.5	1141.4	1140.1	1131.2	1126.3
10°	1128.1	1128.5	1125.0	1117.9	1112.1
12.5°	1112.1	1111.7	1106.8	1103.2	1093.9
15°	1086.8	1089.5	1086.8	1082.0	1074.4
17.5°	1062.4	1062.4	1064.2	1055.8	1050.0
20°	1034.9	1036.3	1036.3	1029.6	1023.0
22.5°	1003.0	1007.0	1008.3	1001.2	993.2
25°	965.3	972.8	977.3	970.2	961.7
27.5°	919.6	931.1	944.4	939.1	929.8
30°	868.6	885.4	907.6	903.2	896.5
32.5°	820.2	837.1	867.7	865.9	862.4
35°	776.3	787.0	822.9	827.3	824.2
37.5°	734.6	744.4	778.1	788.3	785.6
40°	690.7	701.3	728.0	746.1	747.0
42.5°	647.2	657.4	679.2	705.3	705.3
45°	601.1	611.3	631.3	660.1	663.6
47.5°	555.8	566.5	586.0	614.8	620.6
50°	511.5	521.2	540.8	568.7	577.6
52.5°	465.3	476.0	495.1	520.8	533.7
55°	421.0	428.1	448.9	473.8	487.5
57.5°	374.8	381.5	405.0	426.3	440.5
60°	330.5	338.9	357.1	378.8	395.3
62.5°	287.9	296.8	312.3	331.4	350.0
65°	246.6	253.3	268.4	287.5	303.9
67.5°	206.7	212.5	227.6	240.9	258.2
70°	166.4	173.9	185.0	197.8	208.9
72.5°	134.0	137.1	146.4	155.7	167.2
75°	98.9	104.2	111.8	117.1	123.8
77.5°	71.0	74.1	78.5	83.0	89.2
80°	47.5	48.8	52.8	53.7	58.6
82.5°	28.8	29.7	30.6	31.1	32.8
85°	15.5	15.5	15.5	14.6	14.6
87.5°	8.9	8.9	7.5	6.2	4.4
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)