

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: P555171

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-UNV-93-85-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: P555171
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-93-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

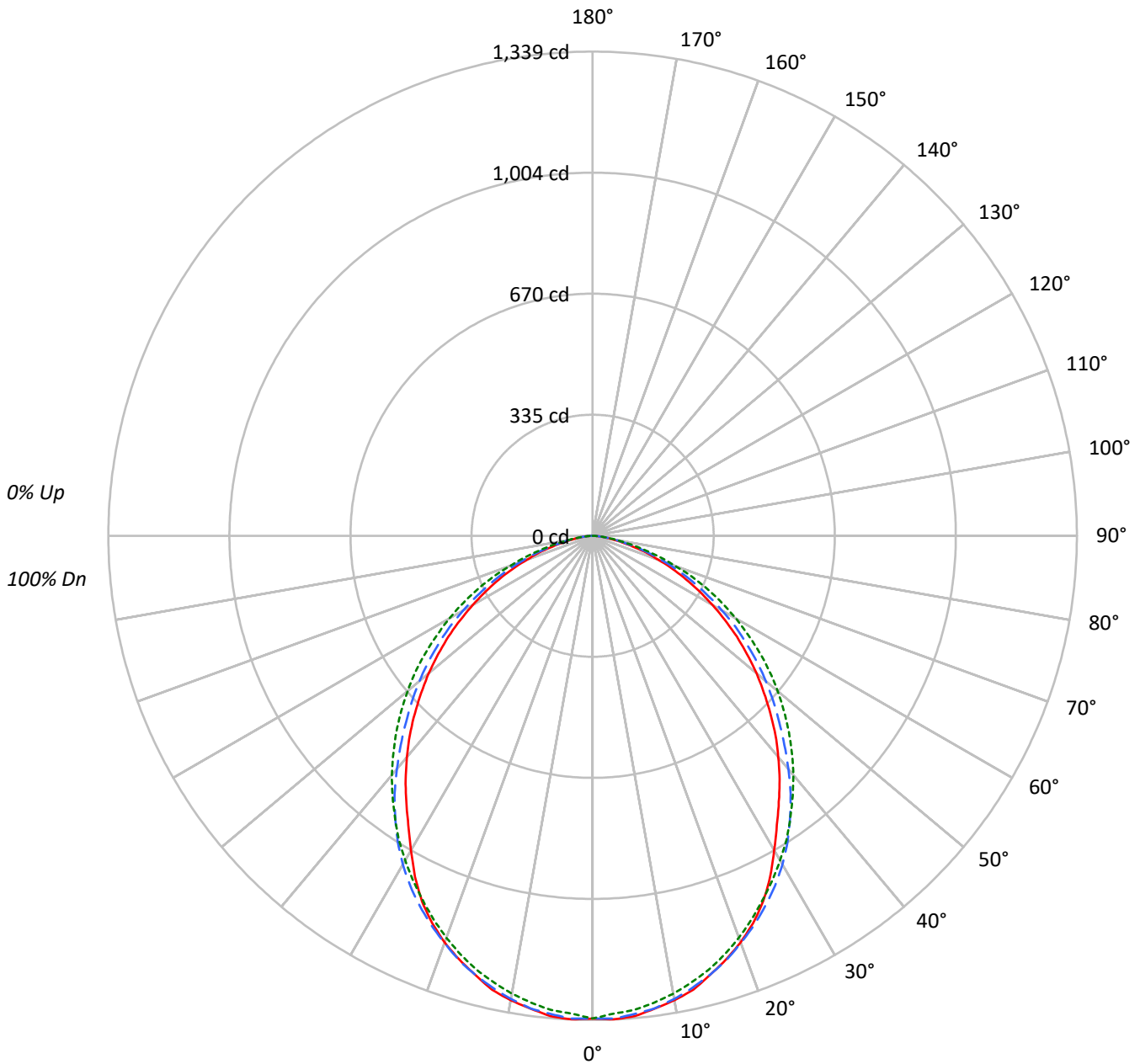
Lumens per Lamp: N/A
Luminaire Lumens: 3087.0 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7185	7185	7185
5°	7204	7174	7113
10°	7128	7108	7027
15°	7002	7002	6921
20°	6853	6862	6774
25°	6627	6710	6603
30°	6241	6522	6441
35°	5897	6251	6261
40°	5611	5913	6068
45°	5290	5555	5840
50°	4952	5235	5591
55°	4567	4870	5289
60°	4113	4444	4919
65°	3632	3952	4474
70°	3026	3366	3802
75°	2379	2687	2976
80°	1702	1891	2098
85°	1112	1112	1044



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.7	4.1
10°-20°	353.1	11.4
20°-30°	516.0	16.7
30°-40°	585.7	19.0
40°-50°	565.5	18.3
50°-60°	466.5	15.1
60°-70°	310.6	10.1
70°-80°	139.0	4.5
80°-90°	24.9	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°	994.9	32.2
0°-40°	1580.6	51.2
0°-60°	2612.5	84.6
0°-90°	3087.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3087.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1335	1335	1335	1335	1335	
5°	1334	1333	1328	1321	1317	126
15°	1257	1260	1257	1251	1242	354
25°	1116	1125	1130	1122	1112	511
35°	898	910	951	956	953	562
45°	695	707	730	763	767	536
55°	487	495	519	548	564	434
65°	285	293	310	332	351	283
75°	114	120	129	135	143	125
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°	1335.0	1335.0	1335.0	1335.0	1335.0
2.5°	1338.6	1339.2	1336.1	1327.9	1322.7
5°	1333.5	1333.0	1327.9	1320.7	1316.6
7.5°	1318.6	1319.7	1318.1	1307.9	1302.2
10°	1304.3	1304.8	1300.7	1292.5	1285.8
12.5°	1285.8	1285.3	1279.7	1275.6	1264.8
15°	1256.6	1259.7	1256.6	1250.9	1242.2
17.5°	1228.4	1228.4	1230.4	1220.7	1214.0
20°	1196.6	1198.1	1198.1	1190.4	1182.7
22.5°	1159.6	1164.3	1165.8	1157.6	1148.4
25°	1116.0	1124.8	1129.9	1121.7	1111.9
27.5°	1063.2	1076.6	1091.9	1085.8	1075.0
30°	1004.2	1023.7	1049.4	1044.2	1036.5
32.5°	948.3	967.8	1003.2	1001.2	997.1
35°	897.6	909.9	951.4	956.5	952.9
37.5°	849.3	860.6	899.6	911.4	908.3
40°	798.6	810.9	841.6	862.7	863.7
42.5°	748.3	760.1	785.2	815.5	815.5
45°	695.0	706.8	729.8	763.2	767.3
47.5°	642.6	655.0	677.5	710.9	717.5
50°	591.4	602.6	625.2	657.5	667.8
52.5°	538.0	550.3	572.4	602.1	617.0
55°	486.7	494.9	519.0	547.8	563.7
57.5°	433.4	441.1	468.3	492.9	509.3
60°	382.1	391.8	412.9	438.0	457.0
62.5°	332.9	343.1	361.1	383.1	404.7
65°	285.2	292.9	310.3	332.4	351.3
67.5°	239.0	245.7	263.1	278.5	298.5
70°	192.3	201.1	213.9	228.7	241.6
72.5°	154.9	158.5	169.3	180.0	193.4
75°	114.4	120.5	129.2	135.4	143.1
77.5°	82.1	85.7	90.8	95.9	103.1
80°	54.9	56.4	61.0	62.1	67.7
82.5°	33.3	34.4	35.4	35.9	38.0
85°	18.0	18.0	18.0	16.9	16.9
87.5°	10.3	10.3	8.7	7.2	5.1
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)