

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: P554796

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-UNV-93-96-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: P554796
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-LD4-2HI-40-UNV-93-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

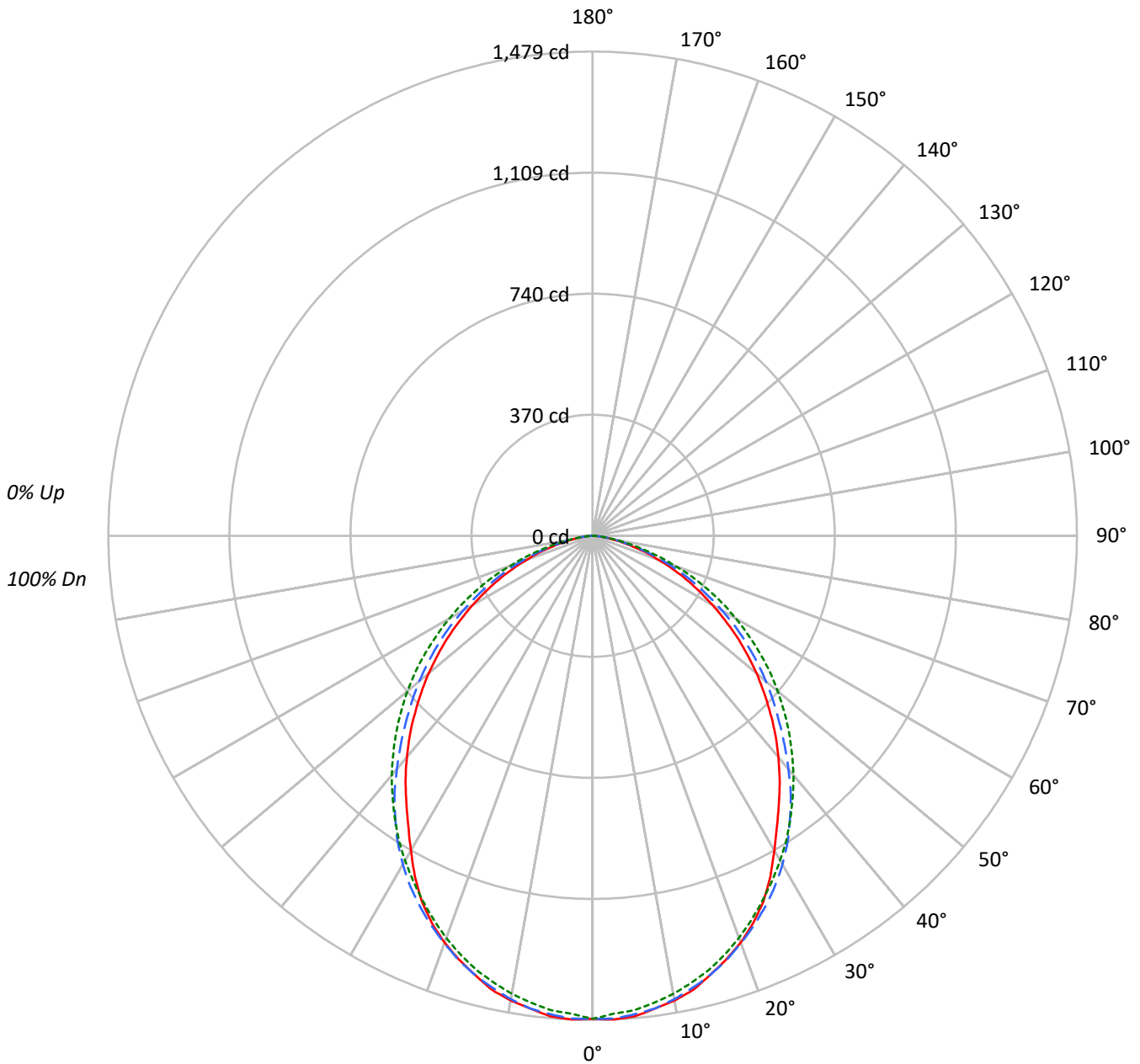
Lumens per Lamp: N/A
Luminaire Lumens: 3411.0 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	7939	7939	7939
5°	7961	7927	7860
10°	7876	7854	7765
15°	7736	7736	7648
20°	7573	7582	7485
25°	7323	7414	7296
30°	6896	7206	7118
35°	6516	6907	6918
40°	6199	6534	6705
45°	5845	6138	6453
50°	5471	5784	6178
55°	5046	5381	5844
60°	4545	4910	5435
65°	4013	4367	4944
70°	3344	3718	4200
75°	2628	2969	3288
80°	1878	2089	2318
85°	1223	1223	1155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.9	4.1
10°-20°	390.2	11.4
20°-30°	570.2	16.7
30°-40°	647.2	19.0
40°-50°	624.8	18.3
50°-60°	515.4	15.1
60°-70°	343.2	10.1
70°-80°	153.6	4.5
80°-90°	27.5	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°	1099.3	32.2
0°-40°	1746.5	51.2
0°-60°	2886.7	84.6
0°-90°	3411.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3411.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1475	1475	1475	1475	1475	
5°	1474	1473	1467	1459	1455	139
15°	1388	1392	1388	1382	1373	391
25°	1233	1243	1248	1239	1229	565
35°	992	1005	1051	1057	1053	621
45°	768	781	806	843	848	592
55°	538	547	574	605	623	480
65°	315	324	343	367	388	312
75°	126	133	143	150	158	138
85°	20	20	20	19	19	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1475.2	1475.2	1475.2	1475.2	1475.2
2.5°	1479.1	1479.7	1476.3	1467.2	1461.6
5°	1473.5	1472.9	1467.2	1459.3	1454.8
7.5°	1457.0	1458.2	1456.5	1445.1	1438.9
10°	1441.2	1441.7	1437.2	1428.1	1420.8
12.5°	1420.8	1420.2	1414.0	1409.4	1397.5
15°	1388.5	1391.9	1388.5	1382.2	1372.6
17.5°	1357.3	1357.3	1359.6	1348.8	1341.4
20°	1322.2	1323.9	1323.9	1315.4	1306.9
22.5°	1281.4	1286.5	1288.2	1279.1	1268.9
25°	1233.2	1242.8	1248.5	1239.4	1228.6
27.5°	1174.8	1189.5	1206.5	1199.7	1187.8
30°	1109.6	1131.2	1159.5	1153.8	1145.3
32.5°	1047.9	1069.4	1108.5	1106.2	1101.7
35°	991.8	1005.4	1051.3	1056.9	1053.0
37.5°	938.5	951.0	994.0	1007.1	1003.7
40°	882.4	896.0	930.0	953.2	954.4
42.5°	826.8	839.9	867.6	901.1	901.1
45°	767.9	780.9	806.4	843.3	847.8
47.5°	710.1	723.7	748.6	785.5	792.8
50°	653.4	665.9	690.8	726.5	737.9
52.5°	594.5	608.1	632.5	665.3	681.8
55°	537.8	546.9	573.5	605.3	622.8
57.5°	478.9	487.4	517.4	544.6	562.8
60°	422.2	433.0	456.2	484.0	504.9
62.5°	367.8	379.1	399.0	423.3	447.1
65°	315.1	323.6	342.9	367.2	388.2
67.5°	264.1	271.5	290.7	307.7	329.8
70°	212.5	222.2	236.3	252.8	266.9
72.5°	171.1	175.1	187.0	198.9	213.7
75°	126.4	133.2	142.8	149.6	158.1
77.5°	90.7	94.6	100.3	106.0	113.9
80°	60.6	62.3	67.4	68.6	74.8
82.5°	36.8	38.0	39.1	39.7	41.9
85°	19.8	19.8	19.8	18.7	18.7
87.5°	11.3	11.3	9.6	7.9	5.7
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)