

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: P555360

Luminaire Tested: **FUSL-12-2-LD4-2STD-50-UNV-93-84-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: P555360
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-93-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

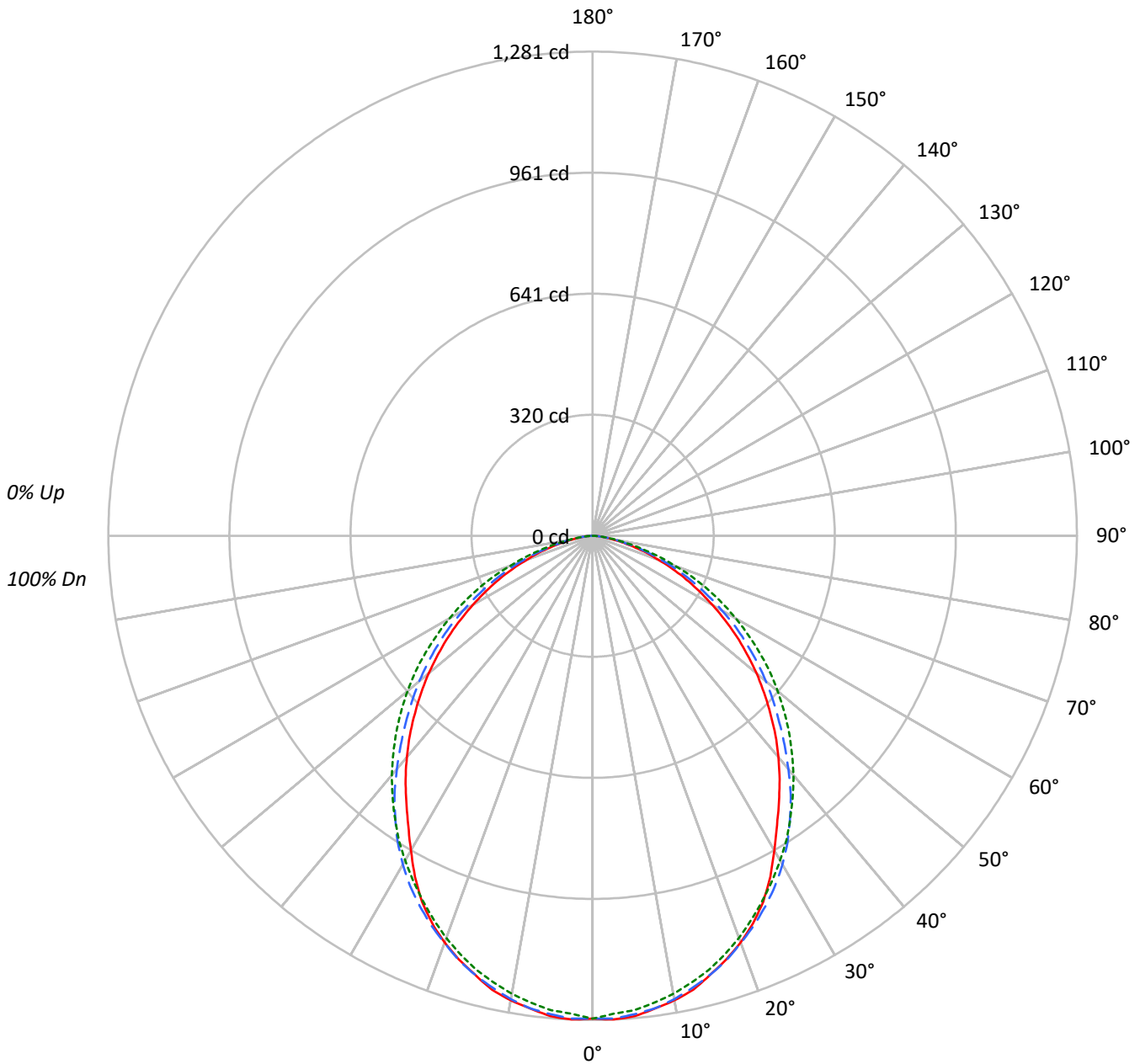
Lumens per Lamp: N/A
Luminaire Lumens: 2954.0 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6875	6875	6875
5°	6894	6865	6807
10°	6821	6802	6724
15°	6700	6700	6623
20°	6558	6566	6482
25°	6342	6421	6318
30°	5972	6241	6164
35°	5643	5981	5991
40°	5369	5658	5807
45°	5061	5316	5588
50°	4738	5009	5350
55°	4371	4661	5061
60°	3935	4253	4707
65°	3475	3781	4281
70°	2895	3221	3638
75°	2275	2572	2847
80°	1627	1810	2008
85°	1062	1062	1000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.3	4.1
10°-20°	337.9	11.4
20°-30°	493.8	16.7
30°-40°	560.5	19.0
40°-50°	541.1	18.3
50°-60°	446.4	15.1
60°-70°	297.2	10.1
70°-80°	133.0	4.5
80°-90°	23.8	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°	952.0	32.2
0°-40°	1512.5	51.2
0°-60°	2500.0	84.6
0°-90°	2954.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2954.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1278	1278	1278	1278	1278	
5°	1276	1276	1271	1264	1260	121
15°	1202	1205	1202	1197	1189	339
25°	1068	1076	1081	1073	1064	489
35°	859	871	910	915	912	538
45°	665	676	698	730	734	513
55°	466	474	497	524	539	416
65°	273	280	297	318	336	271
75°	109	115	124	130	137	120
85°	17	17	17	16	16	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1277.5	1277.5	1277.5	1277.5	1277.5
2.5°	1281.0	1281.5	1278.5	1270.7	1265.7
5°	1276.1	1275.6	1270.7	1263.8	1259.9
7.5°	1261.8	1262.8	1261.3	1251.5	1246.1
10°	1248.1	1248.6	1244.6	1236.8	1230.4
12.5°	1230.4	1229.9	1224.5	1220.6	1210.3
15°	1202.4	1205.4	1202.4	1197.0	1188.7
17.5°	1175.4	1175.4	1177.4	1168.1	1161.7
20°	1145.0	1146.5	1146.5	1139.1	1131.8
22.5°	1109.7	1114.1	1115.6	1107.7	1098.9
25°	1068.0	1076.3	1081.2	1073.4	1064.0
27.5°	1017.4	1030.2	1044.9	1039.0	1028.7
30°	961.0	979.6	1004.2	999.3	991.9
32.5°	907.5	926.1	960.0	958.0	954.1
35°	858.9	870.7	910.4	915.3	911.9
37.5°	812.7	823.5	860.8	872.1	869.2
40°	764.2	775.9	805.4	825.5	826.5
42.5°	716.1	727.4	751.4	780.4	780.4
45°	665.0	676.3	698.4	730.3	734.2
47.5°	615.0	626.7	648.3	680.2	686.6
50°	565.9	576.7	598.3	629.2	639.0
52.5°	514.8	526.6	547.7	576.2	590.4
55°	465.8	473.6	496.7	524.2	539.4
57.5°	414.7	422.1	448.1	471.7	487.4
60°	365.6	375.0	395.1	419.1	437.3
62.5°	318.5	328.3	345.5	366.6	387.2
65°	272.9	280.2	296.9	318.0	336.2
67.5°	228.7	235.1	251.8	266.5	285.6
70°	184.0	192.4	204.7	218.9	231.2
72.5°	148.2	151.7	162.0	172.3	185.0
75°	109.4	115.3	123.7	129.6	136.9
77.5°	78.5	82.0	86.9	91.8	98.6
80°	52.5	54.0	58.4	59.4	64.8
82.5°	31.9	32.9	33.9	34.4	36.3
85°	17.2	17.2	17.2	16.2	16.2
87.5°	9.8	9.8	8.3	6.9	4.9
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)