

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: P555944

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-93-88-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: P555944
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-LD4-3STD-30-UNV-93-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

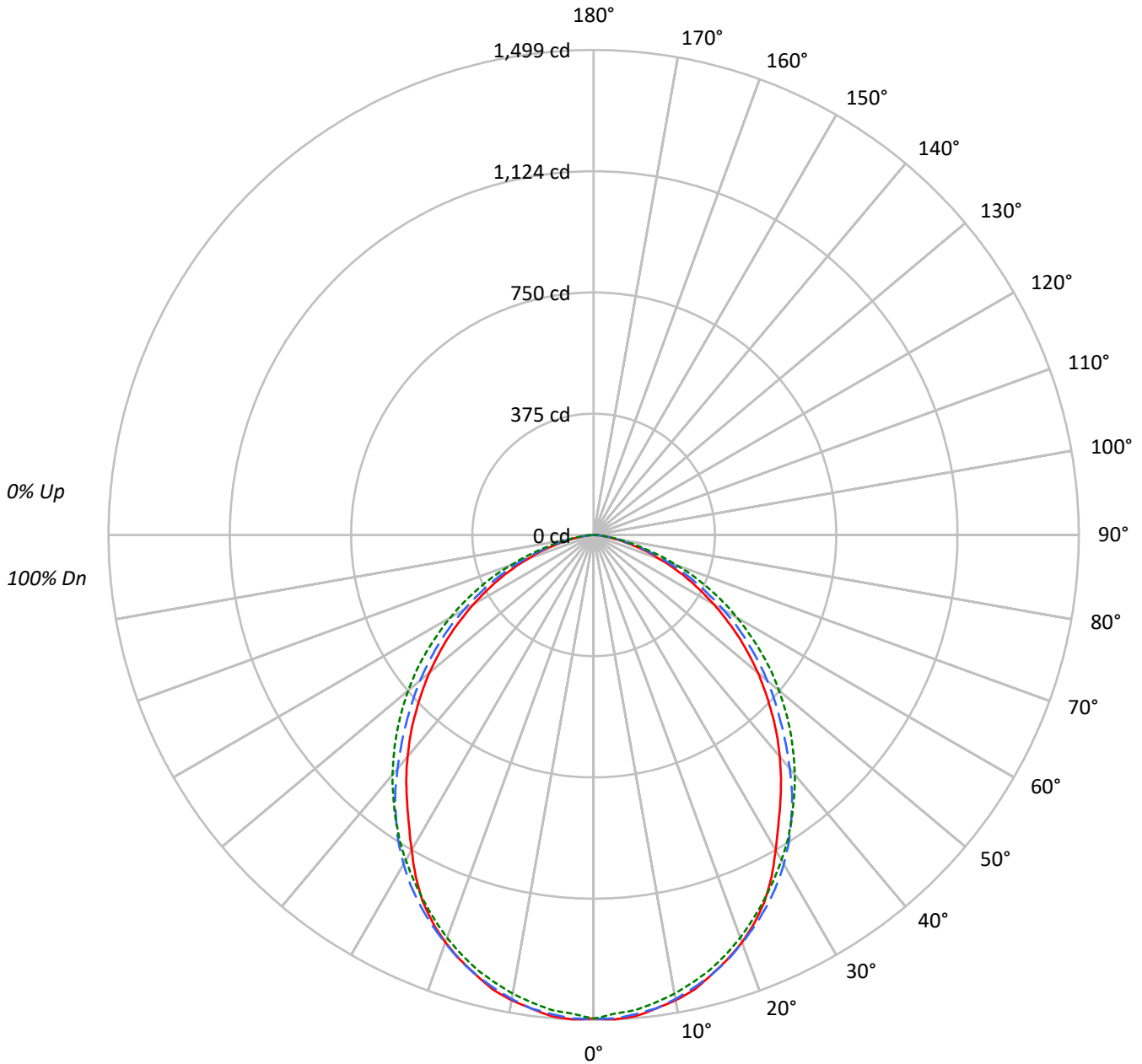
Lumens per Lamp: N/A
Luminaire Lumens: 3457.0 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	8047	8047	8047
5°	8068	8034	7965
10°	7982	7960	7869
15°	7841	7841	7751
20°	7675	7684	7586
25°	7422	7514	7394
30°	6989	7303	7214
35°	6604	7000	7012
40°	6283	6622	6795
45°	5924	6221	6540
50°	5544	5862	6261
55°	5115	5454	5923
60°	4606	4977	5509
65°	4066	4425	5010
70°	3389	3769	4257
75°	2664	3009	3331
80°	1906	2117	2349
85°	1241	1241	1173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.8	4.1
10°-20°	395.4	11.4
20°-30°	577.9	16.7
30°-40°	656.0	19.0
40°-50°	633.2	18.3
50°-60°	522.4	15.1
60°-70°	347.9	10.1
70°-80°	155.7	4.5
80°-90°	27.8	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°	1114.1	32.2
0°-40°	1770.0	51.2
0°-60°	2925.6	84.6
0°-90°	3457.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3457.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1495	1495	1495	1495	1495	
5°	1493	1493	1487	1479	1474	141
15°	1407	1411	1407	1401	1391	397
25°	1250	1260	1265	1256	1245	572
35°	1005	1019	1065	1071	1067	630
45°	778	792	817	855	859	600
55°	545	554	581	613	631	486
65°	319	328	348	372	393	317
75°	128	135	145	152	160	140
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°	1495.1	1495.1	1495.1	1495.1	1495.1
2.5°	1499.1	1499.7	1496.2	1487.0	1481.3
5°	1493.3	1492.8	1487.0	1479.0	1474.4
7.5°	1476.7	1477.8	1476.1	1464.6	1458.3
10°	1460.6	1461.2	1456.6	1447.4	1439.9
12.5°	1439.9	1439.4	1433.0	1428.4	1416.4
15°	1407.2	1410.6	1407.2	1400.9	1391.1
17.5°	1375.6	1375.6	1377.9	1367.0	1359.5
20°	1340.0	1341.7	1341.7	1333.1	1324.5
22.5°	1298.6	1303.8	1305.5	1296.3	1286.0
25°	1249.8	1259.6	1265.3	1256.1	1245.2
27.5°	1190.7	1205.6	1222.8	1215.9	1203.9
30°	1124.6	1146.4	1175.1	1169.4	1160.8
32.5°	1062.0	1083.8	1123.5	1121.2	1116.6
35°	1005.1	1018.9	1065.4	1071.2	1067.2
37.5°	951.1	963.8	1007.4	1020.6	1017.2
40°	894.3	908.1	942.5	966.1	967.2
42.5°	838.0	851.2	879.3	913.2	913.2
45°	778.3	791.5	817.3	854.7	859.2
47.5°	719.7	733.5	758.7	796.1	803.5
50°	662.2	674.9	700.1	736.3	747.8
52.5°	602.5	616.3	641.0	674.3	691.0
55°	545.1	554.3	581.3	613.4	631.2
57.5°	485.3	494.0	524.4	552.0	570.3
60°	427.9	438.8	462.4	490.5	511.8
62.5°	372.8	384.2	404.4	429.0	453.2
65°	319.3	328.0	347.5	372.2	393.4
67.5°	267.7	275.1	294.6	311.9	334.3
70°	215.4	225.1	239.5	256.2	270.5
72.5°	173.5	177.5	189.5	201.6	216.5
75°	128.1	135.0	144.7	151.6	160.2
77.5°	91.9	95.9	101.7	107.4	115.4
80°	61.5	63.2	68.3	69.5	75.8
82.5°	37.3	38.5	39.6	40.2	42.5
85°	20.1	20.1	20.1	19.0	19.0
87.5°	11.5	11.5	9.8	8.0	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)