

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: P556527

Luminaire Tested: **FUSL-12-4-LD4-1LO-35-UNV-93-97-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: P556527
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-12-4-LD4-1LO-35-UNV-93-97-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

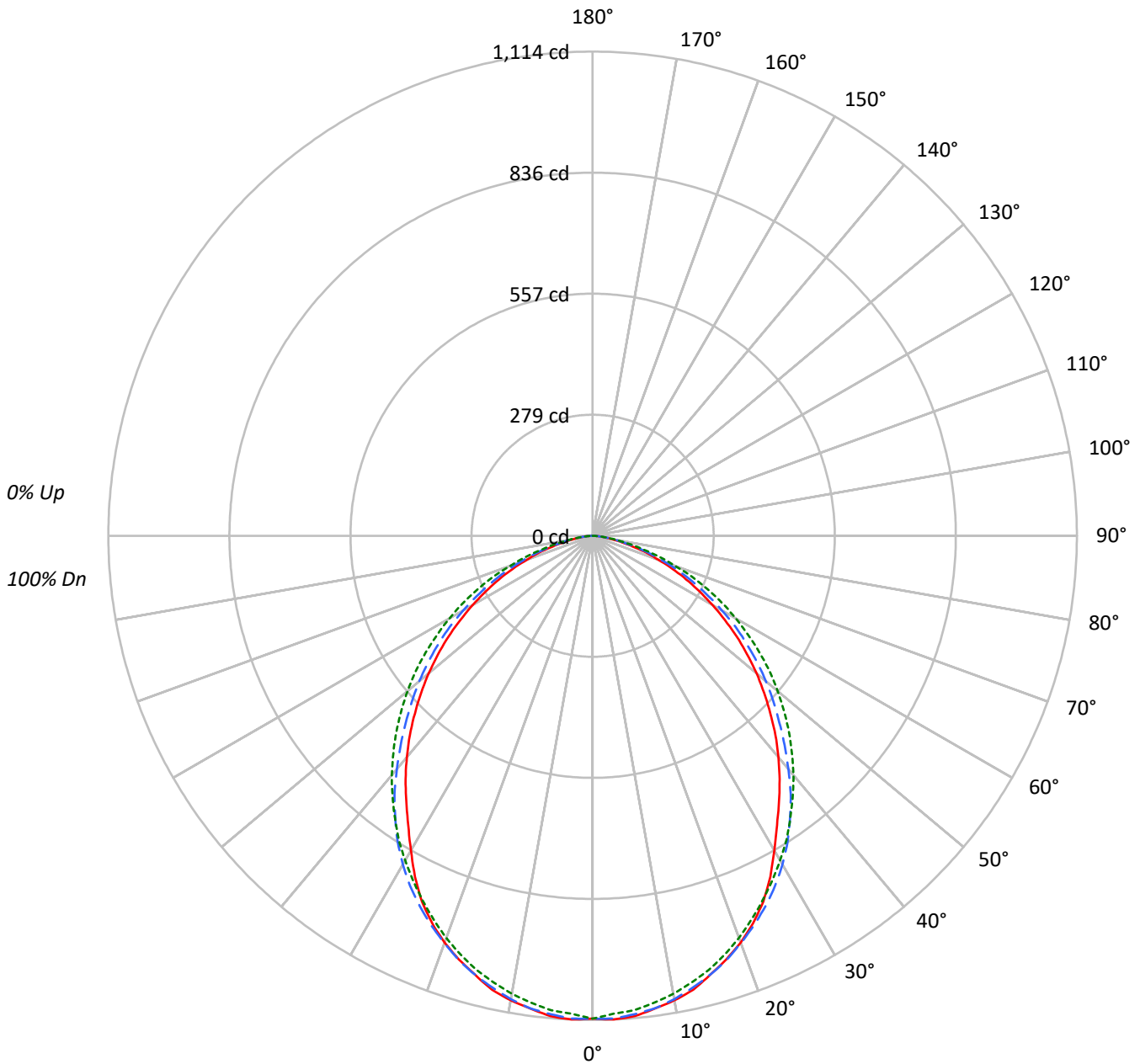
Lumens per Lamp: N/A
Luminaire Lumens: 2569.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	2990	2990	2990
5°	2998	2985	2960
10°	2966	2958	2924
15°	2913	2913	2880
20°	2852	2855	2819
25°	2758	2792	2748
30°	2597	2714	2680
35°	2454	2601	2605
40°	2335	2460	2525
45°	2201	2312	2430
50°	2060	2178	2326
55°	1901	2026	2201
60°	1711	1849	2047
65°	1511	1644	1862
70°	1260	1400	1581
75°	990	1119	1238
80°	708	787	872
85°	460	460	435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	4.1
10°-20°	293.9	11.4
20°-30°	429.4	16.7
30°-40°	487.5	19.0
40°-50°	470.6	18.3
50°-60°	388.2	15.1
60°-70°	258.5	10.1
70°-80°	115.7	4.5
80°-90°	20.7	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°	827.9	32.2
0°-40°	1315.4	51.2
0°-60°	2174.1	84.6
0°-90°	2569.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2569.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1111	1111	1111	1111	1111	
5°	1110	1109	1105	1099	1096	105
15°	1046	1048	1046	1041	1034	295
25°	929	936	940	934	925	425
35°	747	757	792	796	793	468
45°	578	588	607	635	638	446
55°	405	412	432	456	469	362
65°	237	244	258	277	292	235
75°	95	100	108	113	119	104
85°	15	15	15	14	14	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1111.0	1111.0	1111.0	1111.0	1111.0
2.5°	1114.0	1114.4	1111.9	1105.1	1100.8
5°	1109.7	1109.3	1105.1	1099.1	1095.7
7.5°	1097.4	1098.2	1096.9	1088.4	1083.7
10°	1085.4	1085.8	1082.4	1075.6	1070.1
12.5°	1070.1	1069.6	1064.9	1061.5	1052.6
15°	1045.7	1048.3	1045.7	1041.0	1033.8
17.5°	1022.2	1022.2	1024.0	1015.8	1010.3
20°	995.8	997.1	997.1	990.7	984.3
22.5°	965.1	968.9	970.2	963.3	955.7
25°	928.8	936.0	940.3	933.5	925.4
27.5°	884.8	895.9	908.7	903.6	894.6
30°	835.7	851.9	873.3	869.0	862.6
32.5°	789.2	805.4	834.9	833.2	829.7
35°	746.9	757.2	791.8	796.0	793.0
37.5°	706.8	716.2	748.7	758.5	755.9
40°	664.6	674.8	700.4	717.9	718.8
42.5°	622.7	632.6	653.5	678.7	678.7
45°	578.3	588.2	607.4	635.1	638.5
47.5°	534.8	545.1	563.8	591.6	597.1
50°	492.1	501.5	520.3	547.2	555.7
52.5°	447.7	458.0	476.3	501.1	513.5
55°	405.1	411.9	431.9	455.8	469.1
57.5°	360.7	367.1	389.7	410.2	423.8
60°	318.0	326.1	343.6	364.5	380.3
62.5°	277.0	285.5	300.5	318.8	336.8
65°	237.3	243.7	258.2	276.6	292.4
67.5°	198.9	204.4	219.0	231.8	248.4
70°	160.1	167.3	178.0	190.4	201.0
72.5°	128.9	131.9	140.9	149.8	160.9
75°	95.2	100.3	107.6	112.7	119.1
77.5°	68.3	71.3	75.5	79.8	85.8
80°	45.7	47.0	50.8	51.6	56.3
82.5°	27.7	28.6	29.5	29.9	31.6
85°	14.9	14.9	14.9	14.1	14.1
87.5°	8.5	8.5	7.3	6.0	4.3
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)