

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: P556476

Luminaire Tested: **FUSL-12-4-LD4-1LO-35-UNV-80-96-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: P556476
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-80-96-EDD-90
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

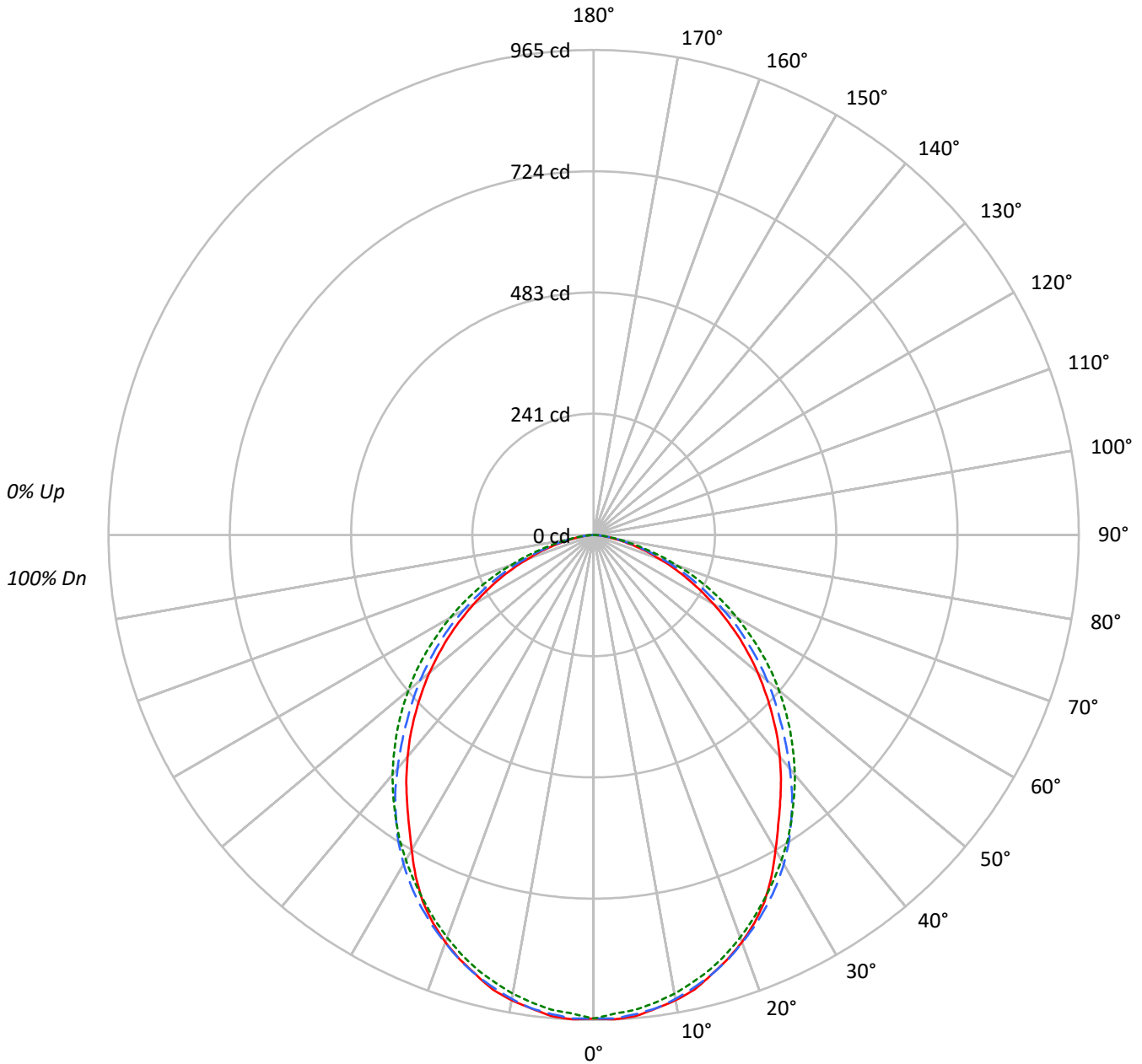
Lumens per Lamp: N/A
Luminaire Lumens: 2225.0 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (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°	2590	2590	2590
5°	2596	2585	2563
10°	2569	2562	2532
15°	2523	2523	2494
20°	2470	2473	2441
25°	2388	2418	2379
30°	2249	2350	2321
35°	2125	2253	2256
40°	2022	2131	2187
45°	1906	2002	2105
50°	1784	1886	2015
55°	1646	1755	1906
60°	1482	1602	1773
65°	1309	1424	1612
70°	1090	1213	1370
75°	857	969	1072
80°	614	682	756
85°	398	398	377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	4.1
10°-20°	254.5	11.4
20°-30°	371.9	16.7
30°-40°	422.2	19.0
40°-50°	407.6	18.3
50°-60°	336.2	15.1
60°-70°	223.9	10.1
70°-80°	100.2	4.5
80°-90°	17.9	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°	717.1	32.2
0°-40°	1139.2	51.2
0°-60°	1883.0	84.6
0°-90°	2225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2225.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	962	962	962	962	962	
5°	961	961	957	952	949	91
15°	906	908	906	902	895	255
25°	804	811	814	808	801	368
35°	647	656	686	689	687	405
45°	501	509	526	550	553	386
55°	351	357	374	395	406	313
65°	206	211	224	240	253	204
75°	82	87	93	98	103	90
85°	13	13	13	12	12	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	962.3	962.3	962.3	962.3	962.3
2.5°	964.8	965.2	963.0	957.1	953.4
5°	961.1	960.8	957.1	951.9	948.9
7.5°	950.4	951.2	950.1	942.7	938.6
10°	940.1	940.4	937.5	931.6	926.8
12.5°	926.8	926.4	922.3	919.4	911.6
15°	905.7	907.9	905.7	901.6	895.3
17.5°	885.4	885.4	886.8	879.8	875.0
20°	862.4	863.6	863.6	858.0	852.5
22.5°	835.8	839.2	840.3	834.3	827.7
25°	804.4	810.7	814.4	808.5	801.4
27.5°	766.3	775.9	787.0	782.6	774.8
30°	723.8	737.9	756.3	752.7	747.1
32.5°	683.5	697.6	723.1	721.6	718.6
35°	646.9	655.8	685.7	689.4	686.8
37.5°	612.2	620.3	648.4	656.9	654.7
40°	575.6	584.5	606.6	621.8	622.5
42.5°	539.4	547.9	566.0	587.8	587.8
45°	500.9	509.4	526.0	550.1	553.0
47.5°	463.2	472.1	488.3	512.4	517.2
50°	426.2	434.4	450.6	473.9	481.3
52.5°	387.8	396.7	412.6	434.0	444.7
55°	350.8	356.7	374.1	394.8	406.3
57.5°	312.4	317.9	337.5	355.3	367.1
60°	275.4	282.4	297.6	315.7	329.4
62.5°	239.9	247.3	260.2	276.1	291.7
65°	205.5	211.1	223.7	239.5	253.2
67.5°	172.3	177.1	189.6	200.7	215.1
70°	138.6	144.9	154.2	164.9	174.1
72.5°	111.6	114.2	122.0	129.8	139.4
75°	82.4	86.9	93.2	97.6	103.1
77.5°	59.1	61.7	65.4	69.1	74.3
80°	39.6	40.7	44.0	44.7	48.8
82.5°	24.0	24.8	25.5	25.9	27.4
85°	12.9	12.9	12.9	12.2	12.2
87.5°	7.4	7.4	6.3	5.2	3.7
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)