

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: P556479

Luminaire Tested: **FUSL-12-4-LD4-1LO-35-UNV-80-97-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: P556479
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-80-97-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC 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

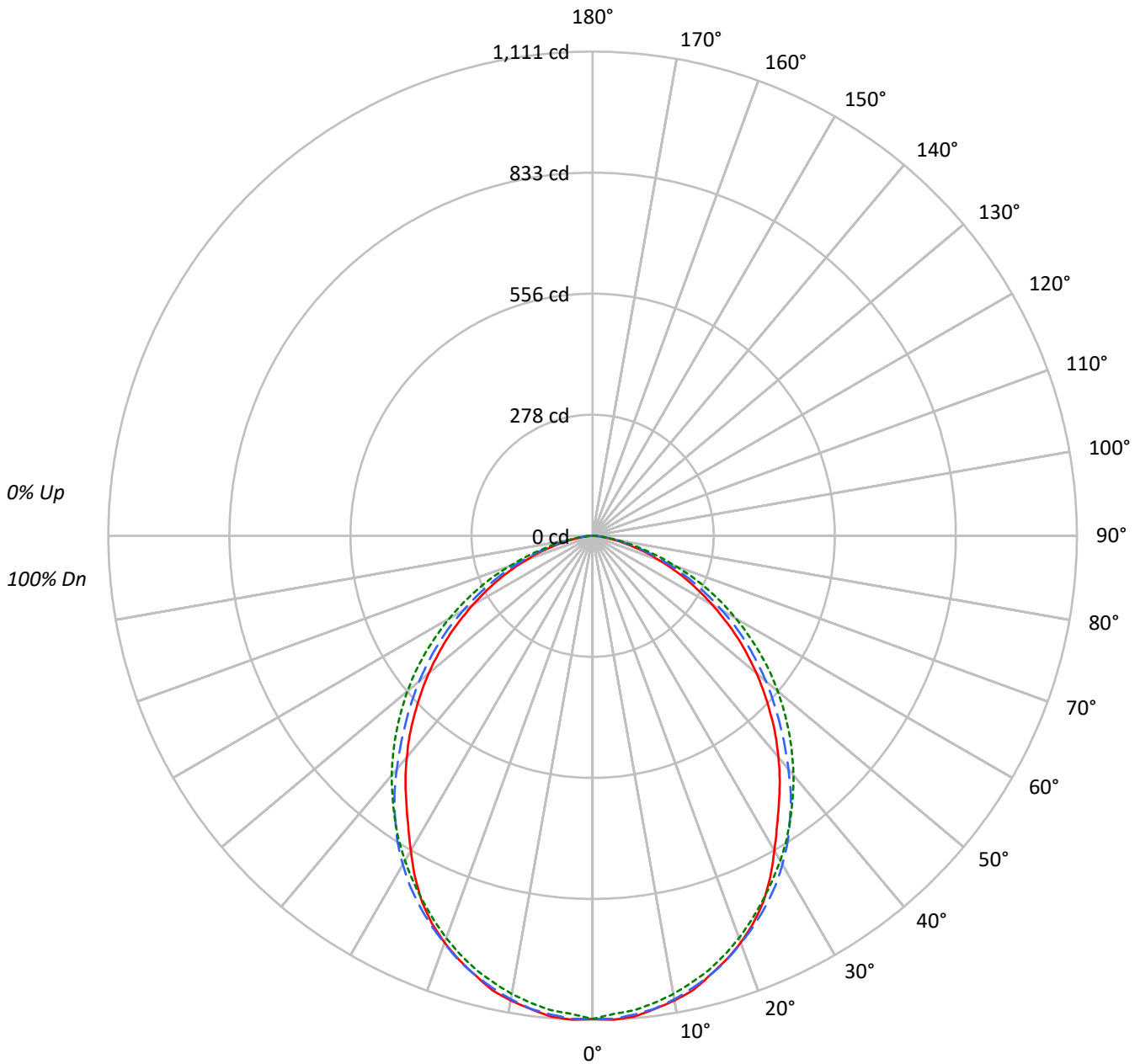
Lumens per Lamp: N/A
Luminaire Lumens: 2563.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P556479

CATALOG NUMBER: FUSL-12-4-LD4-1LO-35-UNV-80-97-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P556479

CATALOG NUMBER: FUSL-12-4-LD4-1LO-35-UNV-80-97-EDD

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°	2983	2983	2983
5°	2991	2978	2953
10°	2959	2951	2917
15°	2907	2907	2873
20°	2845	2849	2812
25°	2751	2785	2741
30°	2591	2707	2674
35°	2448	2595	2599
40°	2329	2455	2519
45°	2196	2306	2424
50°	2056	2173	2321
55°	1896	2022	2196
60°	1707	1845	2042
65°	1508	1640	1857
70°	1257	1397	1578
75°	988	1116	1235
80°	707	786	871
85°	460	460	435



TEST NUMBER: P556479

CATALOG NUMBER: FUSL-12-4-LD4-1LO-35-UNV-80-97-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	4.1
10°-20°	293.2	11.4
20°-30°	428.4	16.7
30°-40°	486.3	19.0
40°-50°	469.5	18.3
50°-60°	387.3	15.1
60°-70°	257.9	10.1
70°-80°	115.4	4.5
80°-90°	20.6	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°	826.0	32.2
0°-40°	1312.3	51.2
0°-60°	2169.0	84.6
0°-90°	2563.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2563.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1108	1108	1108	1108	1108	
5°	1107	1107	1102	1096	1093	105
15°	1043	1046	1043	1039	1031	294
25°	927	934	938	931	923	424
35°	745	755	790	794	791	467
45°	577	587	606	634	637	445
55°	404	411	431	455	468	361
65°	237	243	258	276	292	235
75°	95	100	107	112	119	104
85°	15	15	15	14	14	20
90°	0	0	0	0	0	



TEST NUMBER: P556479

CATALOG NUMBER: FUSL-12-4-LD4-1LO-35-UNV-80-97-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1108.4	1108.4	1108.4	1108.4	1108.4
2.5°	1111.4	1111.8	1109.3	1102.5	1098.2
5°	1107.2	1106.7	1102.5	1096.5	1093.1
7.5°	1094.8	1095.7	1094.4	1085.9	1081.2
10°	1082.9	1083.3	1079.9	1073.1	1067.6
12.5°	1067.6	1067.1	1062.4	1059.0	1050.1
15°	1043.3	1045.8	1043.3	1038.6	1031.4
17.5°	1019.9	1019.9	1021.6	1013.5	1007.9
20°	993.5	994.7	994.7	988.3	982.0
22.5°	962.8	966.6	967.9	961.1	953.4
25°	926.6	933.8	938.1	931.3	923.2
27.5°	882.7	893.8	906.6	901.5	892.5
30°	833.8	850.0	871.2	867.0	860.6
32.5°	787.4	803.5	832.9	831.2	827.8
35°	745.2	755.4	789.9	794.2	791.2
37.5°	705.2	714.5	746.9	756.7	754.1
40°	663.0	673.2	698.8	716.2	717.1
42.5°	621.3	631.1	651.9	677.1	677.1
45°	577.0	586.8	606.0	633.6	637.0
47.5°	533.6	543.8	562.5	590.2	595.7
50°	491.0	500.3	519.1	545.9	554.4
52.5°	446.7	456.9	475.2	499.9	512.3
55°	404.1	410.9	430.9	454.8	468.0
57.5°	359.8	366.2	388.8	409.2	422.8
60°	317.2	325.3	342.8	363.7	379.4
62.5°	276.4	284.9	299.8	318.1	336.0
65°	236.8	243.1	257.6	275.9	291.7
67.5°	198.4	204.0	218.4	231.2	247.8
70°	159.7	166.9	177.6	189.9	200.6
72.5°	128.6	131.6	140.5	149.5	160.5
75°	95.0	100.1	107.3	112.4	118.8
77.5°	68.1	71.1	75.4	79.6	85.6
80°	45.6	46.8	50.7	51.5	56.2
82.5°	27.7	28.5	29.4	29.8	31.5
85°	14.9	14.9	14.9	14.1	14.1
87.5°	8.5	8.5	7.2	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)