

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: P556475

Luminaire Tested: **FUSL-12-4-LD4-1LO-35-UNV-80-94-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: P556475
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-80-94-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

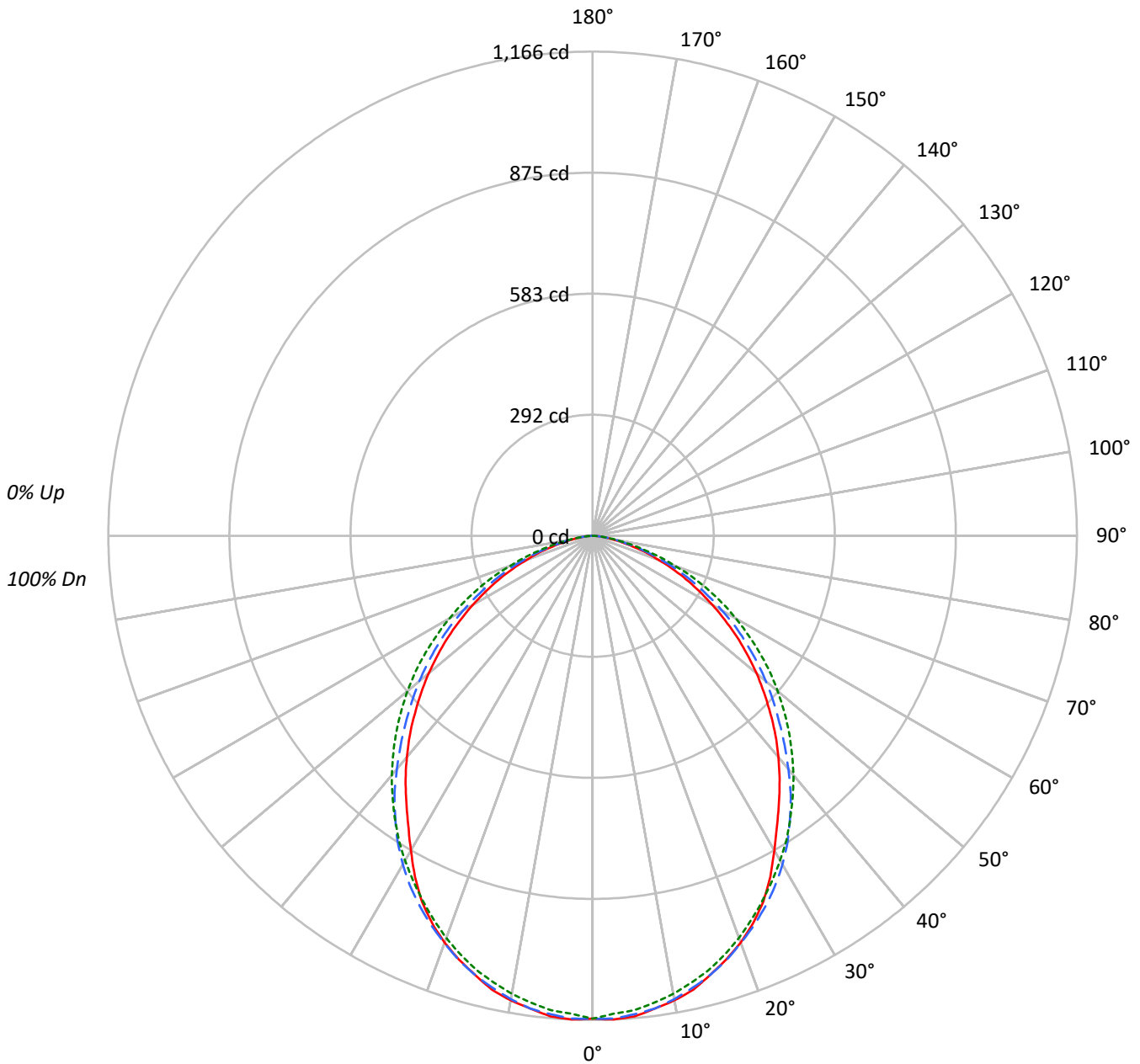
Lumens per Lamp: N/A
Luminaire Lumens: 2689.0 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P556475

CATALOG NUMBER: FUSL-12-4-LD4-1LO-35-UNV-80-94-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P556475

CATALOG NUMBER: FUSL-12-4-LD4-1LO-35-UNV-80-94-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°	3129	3129	3129
5°	3138	3125	3098
10°	3104	3096	3060
15°	3049	3049	3015
20°	2985	2989	2950
25°	2887	2922	2876
30°	2718	2840	2806
35°	2568	2722	2727
40°	2444	2575	2643
45°	2304	2419	2544
50°	2156	2280	2435
55°	1989	2121	2304
60°	1791	1935	2143
65°	1582	1721	1948
70°	1318	1466	1655
75°	1036	1171	1295
80°	741	824	914
85°	482	482	454



TEST NUMBER: P556475

CATALOG NUMBER: FUSL-12-4-LD4-1LO-35-UNV-80-94-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	4.1
10°-20°	307.6	11.4
20°-30°	449.5	16.7
30°-40°	510.2	19.0
40°-50°	492.5	18.3
50°-60°	406.3	15.1
60°-70°	270.6	10.1
70°-80°	121.1	4.5
80°-90°	21.7	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°	866.6	32.2
0°-40°	1376.8	51.2
0°-60°	2275.7	84.6
0°-90°	2689.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2689.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1163	1163	1163	1163	1163	
5°	1162	1161	1157	1150	1147	110
15°	1095	1097	1095	1090	1082	309
25°	972	980	984	977	969	445
35°	782	793	829	833	830	490
45°	605	616	636	665	668	467
55°	424	431	452	477	491	378
65°	248	255	270	290	306	246
75°	100	105	113	118	125	109
85°	16	16	16	15	15	21
90°	0	0	0	0	0	



TEST NUMBER: P556475

CATALOG NUMBER: FUSL-12-4-LD4-1LO-35-UNV-80-94-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1162.9	1162.9	1162.9	1162.9	1162.9
2.5°	1166.1	1166.5	1163.8	1156.7	1152.2
5°	1161.6	1161.1	1156.7	1150.4	1146.8
7.5°	1148.6	1149.5	1148.2	1139.2	1134.3
10°	1136.1	1136.6	1133.0	1125.8	1120.0
12.5°	1120.0	1119.6	1114.7	1111.1	1101.7
15°	1094.6	1097.2	1094.6	1089.7	1082.1
17.5°	1070.0	1070.0	1071.8	1063.3	1057.5
20°	1042.3	1043.6	1043.6	1036.9	1030.2
22.5°	1010.1	1014.2	1015.5	1008.3	1000.3
25°	972.2	979.8	984.2	977.1	968.6
27.5°	926.1	937.8	951.2	945.8	936.4
30°	874.8	891.7	914.1	909.6	902.9
32.5°	826.1	843.0	873.9	872.1	868.5
35°	781.8	792.6	828.7	833.2	830.1
37.5°	739.8	749.7	783.6	793.9	791.2
40°	695.6	706.3	733.1	751.5	752.3
42.5°	651.8	662.1	684.0	710.4	710.4
45°	605.4	615.6	635.7	664.8	668.4
47.5°	559.8	570.5	590.2	619.2	625.0
50°	515.1	524.9	544.6	572.7	581.7
52.5°	468.7	479.4	498.6	524.5	537.5
55°	424.0	431.1	452.1	477.1	491.0
57.5°	377.5	384.2	407.9	429.3	443.6
60°	332.8	341.3	359.6	381.5	398.1
62.5°	289.9	298.9	314.5	333.7	352.5
65°	248.4	255.1	270.3	289.5	306.0
67.5°	208.2	214.0	229.2	242.6	260.0
70°	167.5	175.1	186.3	199.3	210.4
72.5°	134.9	138.0	147.4	156.8	168.4
75°	99.6	105.0	112.6	117.9	124.6
77.5°	71.5	74.6	79.1	83.5	89.8
80°	47.8	49.1	53.2	54.1	59.0
82.5°	29.0	29.9	30.8	31.3	33.1
85°	15.6	15.6	15.6	14.7	14.7
87.5°	8.9	8.9	7.6	6.3	4.5
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)