

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: P556467

Luminaire Tested: **FUSL-12-4-LD4-1LO-35-UNV-80-85-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: P556467
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-80-85-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

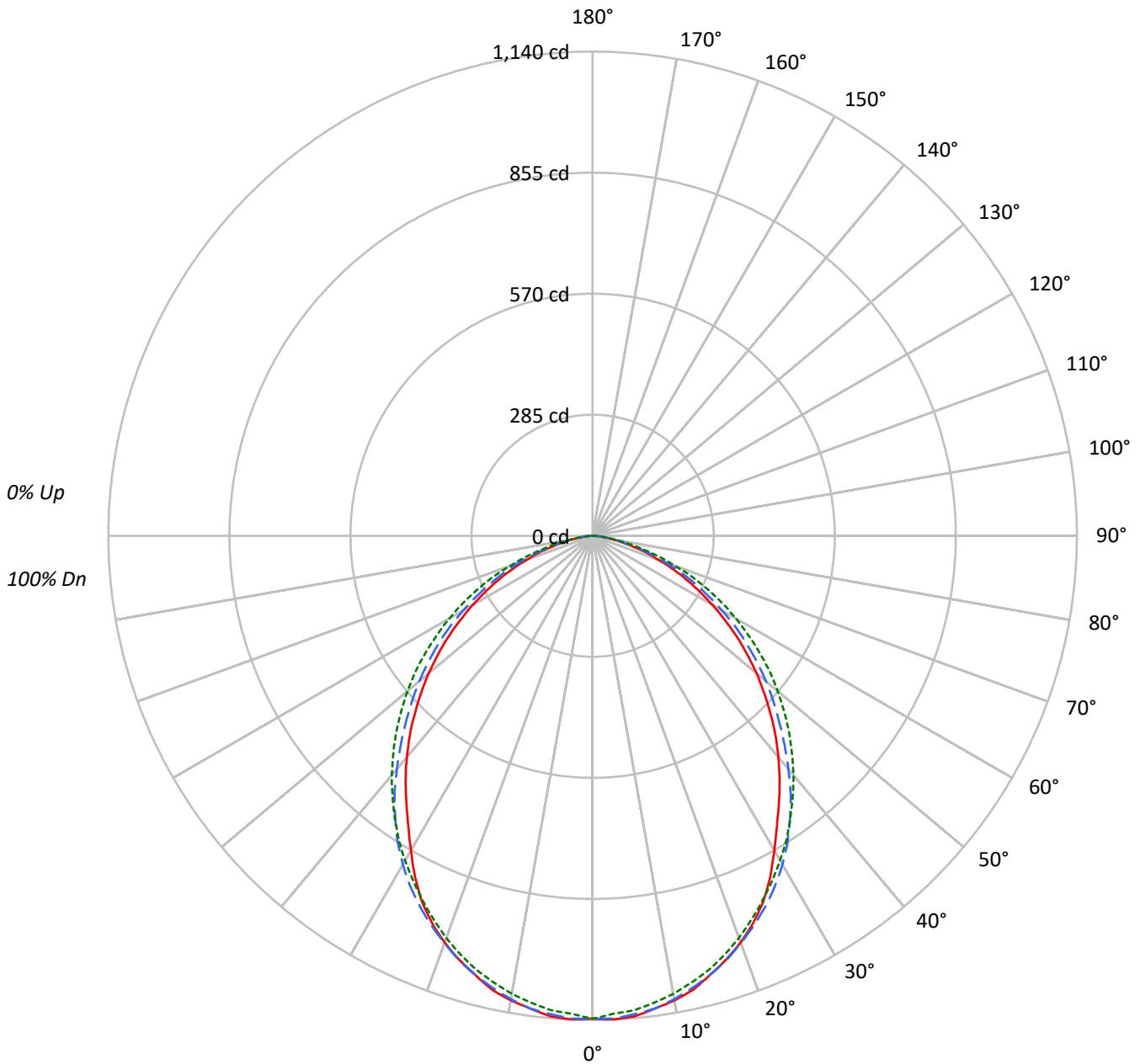
Lumens per Lamp: N/A
Luminaire Lumens: 2629.0 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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: P556467

CATALOG NUMBER: FUSL-12-4-LD4-1LO-35-UNV-80-85-EDD

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°	3060	3060	3060
5°	3068	3055	3029
10°	3035	3027	2992
15°	2981	2981	2947
20°	2918	2922	2884
25°	2822	2857	2812
30°	2657	2777	2743
35°	2511	2662	2666
40°	2389	2518	2584
45°	2253	2366	2487
50°	2108	2229	2381
55°	1945	2074	2252
60°	1751	1892	2095
65°	1547	1683	1905
70°	1289	1433	1618
75°	1013	1145	1267
80°	724	806	894
85°	472	472	445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	4.1
10°-20°	300.7	11.4
20°-30°	439.5	16.7
30°-40°	498.8	19.0
40°-50°	481.6	18.3
50°-60°	397.3	15.1
60°-70°	264.5	10.1
70°-80°	118.4	4.5
80°-90°	21.2	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°	847.2	32.2
0°-40°	1346.1	51.2
0°-60°	2224.9	84.6
0°-90°	2629.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2629.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1137	1137	1137	1137	1137	
5°	1136	1135	1131	1125	1121	107
15°	1070	1073	1070	1065	1058	302
25°	950	958	962	955	947	435
35°	764	775	810	815	812	479
45°	592	602	622	650	653	457
55°	414	422	442	466	480	370
65°	243	249	264	283	299	241
75°	97	103	110	115	122	107
85°	15	15	15	14	14	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1137.0	1137.0	1137.0	1137.0	1137.0
2.5°	1140.0	1140.5	1137.8	1130.9	1126.5
5°	1135.7	1135.2	1130.9	1124.7	1121.3
7.5°	1123.0	1123.9	1122.6	1113.8	1109.0
10°	1110.8	1111.2	1107.7	1100.7	1095.0
12.5°	1095.0	1094.6	1089.8	1086.3	1077.1
15°	1070.1	1072.8	1070.1	1065.3	1057.9
17.5°	1046.1	1046.1	1047.9	1039.6	1033.9
20°	1019.0	1020.4	1020.4	1013.8	1007.2
22.5°	987.6	991.5	992.8	985.8	978.0
25°	950.5	957.9	962.3	955.3	947.0
27.5°	905.5	916.8	929.9	924.7	915.5
30°	855.2	871.8	893.7	889.3	882.8
32.5°	807.6	824.2	854.4	852.6	849.1
35°	764.4	774.9	810.3	814.6	811.6
37.5°	723.3	732.9	766.1	776.2	773.6
40°	680.1	690.6	716.8	734.7	735.6
42.5°	637.3	647.3	668.7	694.5	694.5
45°	591.9	601.9	621.6	649.9	653.4
47.5°	547.3	557.8	577.0	605.4	611.1
50°	503.6	513.2	532.5	560.0	568.7
52.5°	458.2	468.7	487.5	512.8	525.5
55°	414.5	421.5	442.0	466.5	480.0
57.5°	369.1	375.6	398.8	419.8	433.7
60°	325.4	333.7	351.6	373.0	389.2
62.5°	283.5	292.2	307.5	326.3	344.6
65°	242.9	249.4	264.3	283.0	299.2
67.5°	203.5	209.2	224.1	237.2	254.2
70°	163.8	171.2	182.1	194.8	205.7
72.5°	131.9	135.0	144.1	153.3	164.7
75°	97.4	102.6	110.1	115.3	121.9
77.5°	69.9	72.9	77.3	81.7	87.8
80°	46.7	48.0	52.0	52.9	57.7
82.5°	28.4	29.3	30.1	30.6	32.3
85°	15.3	15.3	15.3	14.4	14.4
87.5°	8.7	8.7	7.4	6.1	4.4
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)