

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: P558003

Luminaire Tested: **FUSL-12-4-LD4-3LO-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: P558003
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-LD4-3LO-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

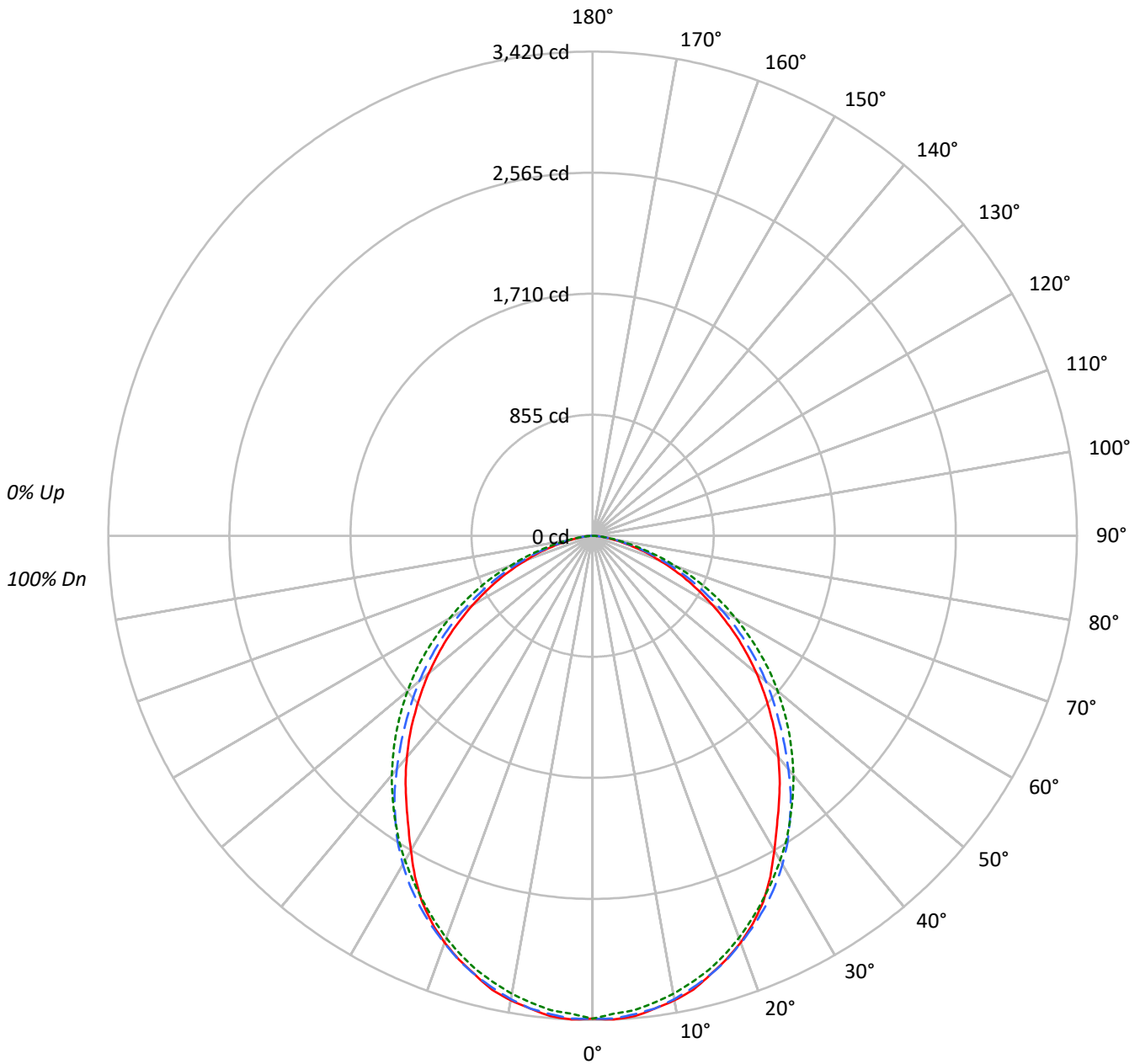
Lumens per Lamp: N/A
Luminaire Lumens: 7887.0 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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°	9179	9179	9179
5°	9203	9164	9086
10°	9105	9080	8977
15°	8944	8944	8842
20°	8755	8766	8653
25°	8466	8571	8435
30°	7972	8331	8229
35°	7533	7985	7998
40°	7167	7554	7752
45°	6757	7096	7460
50°	6325	6687	7142
55°	5834	6222	6756
60°	5254	5677	6284
65°	4639	5048	5715
70°	3866	4299	4856
75°	3038	3433	3801
80°	2173	2416	2681
85°	1417	1417	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.1	4.1
10°-20°	902.2	11.4
20°-30°	1318.4	16.7
30°-40°	1496.5	19.0
40°-50°	1444.7	18.3
50°-60°	1191.8	15.1
60°-70°	793.6	10.1
70°-80°	355.1	4.5
80°-90°	63.5	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°	2541.8	32.2
0°-40°	4038.3	51.2
0°-60°	6674.7	84.6
0°-90°	7887.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7887.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3411	3411	3411	3411	3411	
5°	3407	3406	3393	3374	3364	322
15°	3210	3218	3210	3196	3174	905
25°	2851	2874	2887	2866	2841	1306
35°	2293	2325	2431	2444	2435	1437
45°	1776	1806	1865	1950	1960	1370
55°	1244	1264	1326	1400	1440	1110
65°	729	748	793	849	898	722
75°	292	308	330	346	366	320
85°	46	46	46	43	43	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3410.9	3410.9	3410.9	3410.9	3410.9
2.5°	3420.1	3421.4	3413.5	3392.6	3379.5
5°	3407.0	3405.7	3392.6	3374.2	3363.8
7.5°	3369.0	3371.6	3367.7	3341.5	3327.1
10°	3332.3	3333.6	3323.1	3302.2	3285.1
12.5°	3285.1	3283.8	3269.4	3258.9	3231.4
15°	3210.4	3218.3	3210.4	3196.0	3173.7
17.5°	3138.4	3138.4	3143.6	3118.7	3101.7
20°	3057.1	3061.1	3061.1	3041.4	3021.7
22.5°	2962.8	2974.6	2978.5	2957.5	2933.9
25°	2851.4	2873.7	2886.8	2865.8	2840.9
27.5°	2716.4	2750.5	2789.8	2774.1	2746.6
30°	2565.7	2615.5	2681.0	2667.9	2648.3
32.5°	2422.9	2472.7	2563.1	2557.9	2547.4
35°	2293.2	2324.6	2430.8	2443.9	2434.7
37.5°	2170.0	2198.8	2298.4	2328.5	2320.7
40°	2040.3	2071.7	2150.3	2204.1	2206.7
42.5°	1911.8	1942.0	2006.2	2083.5	2083.5
45°	1775.6	1805.7	1864.7	1949.8	1960.3
47.5°	1641.9	1673.4	1731.0	1816.2	1833.2
50°	1510.9	1539.7	1597.4	1679.9	1706.1
52.5°	1374.6	1406.0	1462.4	1538.4	1576.4
55°	1243.6	1264.5	1326.1	1399.5	1440.1
57.5°	1107.3	1126.9	1196.4	1259.3	1301.2
60°	976.2	1001.1	1054.9	1119.1	1167.6
62.5°	850.4	876.6	922.5	978.9	1033.9
65°	728.6	748.2	792.8	849.1	897.6
67.5°	610.6	627.7	672.2	711.5	762.6
70°	491.4	513.7	546.4	584.4	617.2
72.5°	395.7	404.9	432.4	459.9	494.0
75°	292.2	307.9	330.2	345.9	365.6
77.5°	209.7	218.8	231.9	245.0	263.4
80°	140.2	144.1	155.9	158.6	173.0
82.5°	85.2	87.8	90.4	91.7	97.0
85°	45.9	45.9	45.9	43.2	43.2
87.5°	26.2	26.2	22.3	18.3	13.1
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)