

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: P558010

Luminaire Tested: **FUSL-12-4-LD4-3LO-35-UNV-80-94-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: P558010
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-80-94-EDD-90
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

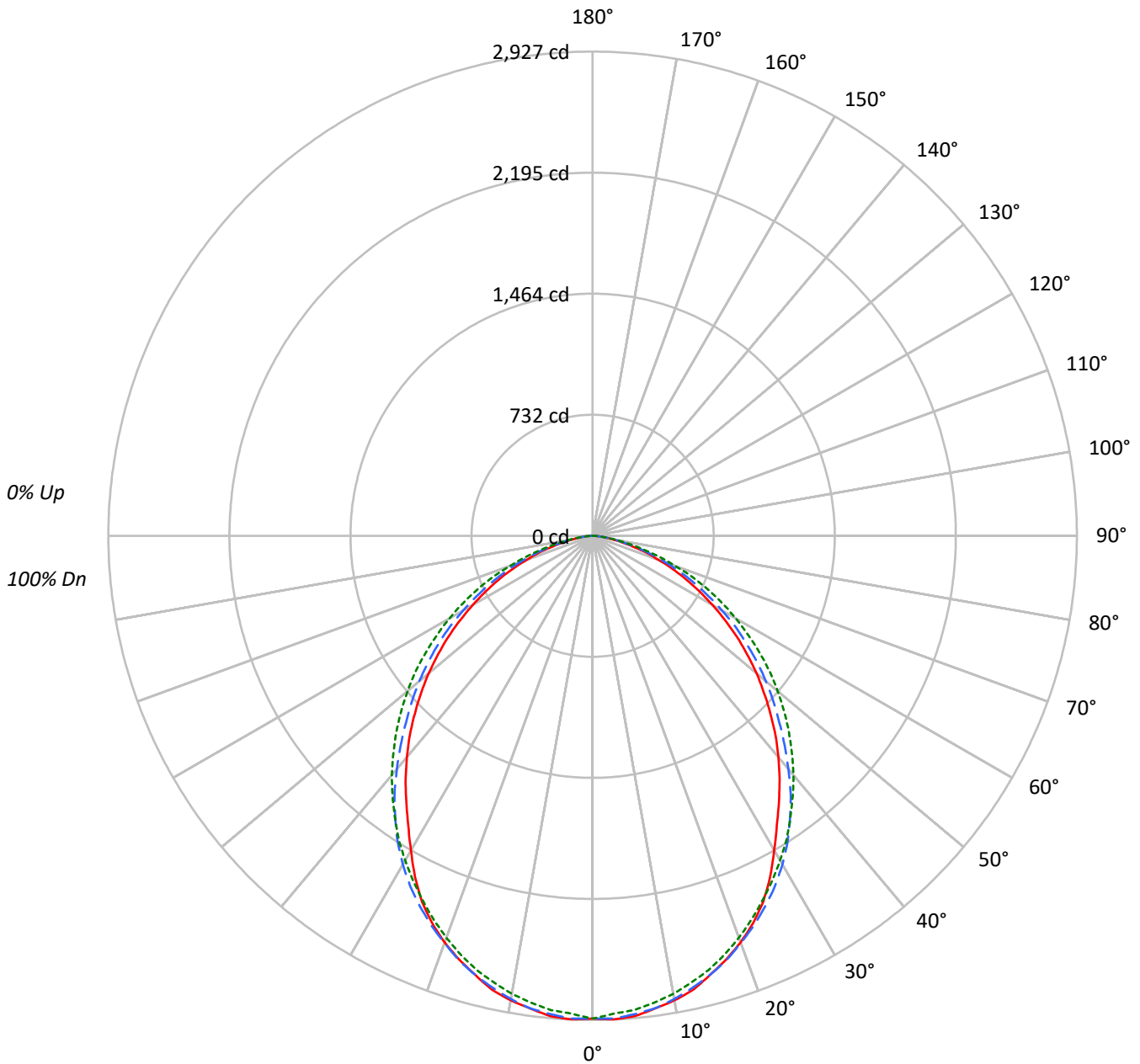
Lumens per Lamp: N/A
Luminaire Lumens: 6749.0 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	7854	7854	7854
5°	7875	7842	7775
10°	7792	7770	7681
15°	7653	7653	7566
20°	7491	7501	7405
25°	7245	7334	7218
30°	6822	7129	7042
35°	6446	6833	6844
40°	6133	6464	6633
45°	5782	6072	6384
50°	5413	5722	6112
55°	4992	5324	5781
60°	4496	4858	5377
65°	3969	4320	4891
70°	3308	3679	4155
75°	2600	2938	3252
80°	1860	2067	2294
85°	1210	1210	1142



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.8	4.1
10°-20°	772.0	11.4
20°-30°	1128.2	16.7
30°-40°	1280.6	19.0
40°-50°	1236.2	18.3
50°-60°	1019.8	15.1
60°-70°	679.1	10.1
70°-80°	303.9	4.5
80°-90°	54.4	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°	2175.0	32.2
0°-40°	3455.6	51.2
0°-60°	5711.6	84.6
0°-90°	6749.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6749.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2919	2919	2919	2919	2919	
5°	2915	2914	2903	2887	2878	276
15°	2747	2754	2747	2735	2716	774
25°	2440	2459	2470	2452	2431	1117
35°	1962	1989	2080	2091	2083	1229
45°	1519	1545	1596	1668	1678	1172
55°	1064	1082	1135	1198	1232	950
65°	623	640	678	727	768	618
75°	250	264	283	296	313	273
85°	39	39	39	37	37	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2918.8	2918.8	2918.8	2918.8	2918.8
2.5°	2926.6	2927.7	2921.0	2903.1	2891.9
5°	2915.4	2914.3	2903.1	2887.4	2878.4
7.5°	2882.9	2885.1	2881.8	2859.3	2847.0
10°	2851.5	2852.6	2843.6	2825.7	2811.1
12.5°	2811.1	2810.0	2797.7	2788.7	2765.1
15°	2747.2	2753.9	2747.2	2734.9	2715.8
17.5°	2685.5	2685.5	2690.0	2668.7	2654.1
20°	2616.0	2619.4	2619.4	2602.6	2585.7
22.5°	2535.3	2545.4	2548.7	2530.8	2510.6
25°	2440.0	2459.0	2470.2	2452.3	2431.0
27.5°	2324.5	2353.6	2387.3	2373.8	2350.3
30°	2195.5	2238.1	2294.2	2283.0	2266.2
32.5°	2073.3	2115.9	2193.3	2188.8	2179.8
35°	1962.3	1989.2	2080.0	2091.2	2083.4
37.5°	1856.9	1881.6	1966.8	1992.6	1985.8
40°	1745.9	1772.8	1840.1	1886.0	1888.3
42.5°	1636.0	1661.8	1716.7	1782.9	1782.9
45°	1519.4	1545.2	1595.6	1668.5	1677.5
47.5°	1405.0	1431.9	1481.2	1554.1	1568.7
50°	1292.9	1317.5	1366.9	1437.5	1459.9
52.5°	1176.3	1203.2	1251.4	1316.4	1348.9
55°	1064.1	1082.1	1134.8	1197.6	1232.3
57.5°	947.5	964.3	1023.8	1077.6	1113.5
60°	835.4	856.7	902.7	957.6	999.1
62.5°	727.7	750.2	789.4	837.6	884.7
65°	623.4	640.3	678.4	726.6	768.1
67.5°	522.5	537.1	575.2	608.9	652.6
70°	420.5	439.6	467.6	500.1	528.1
72.5°	338.6	346.5	370.0	393.6	422.7
75°	250.1	263.5	282.6	296.0	312.8
77.5°	179.4	187.3	198.5	209.7	225.4
80°	120.0	123.3	133.4	135.7	148.0
82.5°	72.9	75.1	77.4	78.5	83.0
85°	39.2	39.2	39.2	37.0	37.0
87.5°	22.4	22.4	19.1	15.7	11.2
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)