

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: P558187

Luminaire Tested: **FUSL-12-4-LD4-3LO-50-UNV-93-94-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: P558187
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-50-UNV-93-94-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

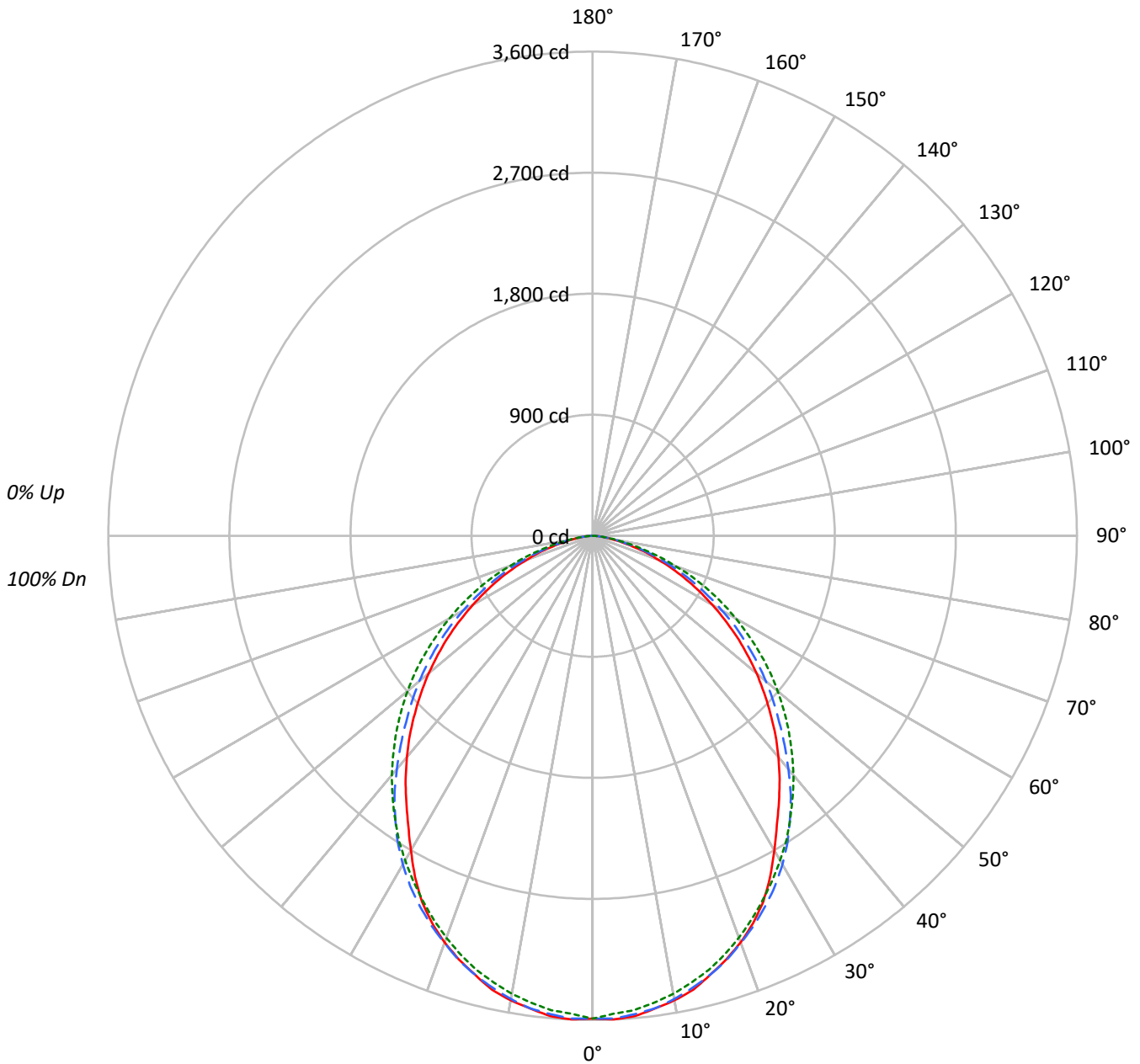
Lumens per Lamp: N/A
Luminaire Lumens: 8301.0 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	9661	9661	9661
5°	9686	9645	9563
10°	9583	9557	9448
15°	9414	9414	9306
20°	9214	9226	9108
25°	8911	9021	8878
30°	8391	8768	8661
35°	7929	8405	8418
40°	7543	7950	8159
45°	7112	7469	7852
50°	6657	7038	7518
55°	6140	6548	7111
60°	5530	5975	6613
65°	4883	5313	6015
70°	4069	4525	5111
75°	3198	3613	4001
80°	2287	2543	2820
85°	1491	1491	1405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.0	4.1
10°-20°	949.6	11.4
20°-30°	1387.6	16.7
30°-40°	1575.1	19.0
40°-50°	1520.5	18.3
50°-60°	1254.3	15.1
60°-70°	835.3	10.1
70°-80°	373.8	4.5
80°-90°	66.9	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°	2675.2	32.2
0°-40°	4250.3	51.2
0°-60°	7025.1	84.6
0°-90°	8301.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8301.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3590	3590	3590	3590	3590	
5°	3586	3584	3571	3551	3540	339
15°	3379	3387	3379	3364	3340	953
25°	3001	3024	3038	3016	2990	1374
35°	2414	2447	2558	2572	2562	1512
45°	1869	1900	1963	2052	2063	1442
55°	1309	1331	1396	1473	1516	1168
65°	767	788	834	894	945	760
75°	308	324	348	364	385	336
85°	48	48	48	46	46	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3590.0	3590.0	3590.0	3590.0	3590.0
2.5°	3599.6	3601.0	3592.7	3570.7	3556.9
5°	3585.8	3584.5	3570.7	3551.4	3540.3
7.5°	3545.8	3548.6	3544.5	3516.9	3501.7
10°	3507.2	3508.6	3497.6	3475.5	3457.6
12.5°	3457.6	3456.2	3441.0	3430.0	3401.0
15°	3379.0	3387.2	3379.0	3363.8	3340.3
17.5°	3303.1	3303.1	3308.6	3282.4	3264.5
20°	3217.6	3221.7	3221.7	3201.0	3180.4
22.5°	3118.3	3130.7	3134.8	3112.8	3088.0
25°	3001.1	3024.5	3038.3	3016.2	2990.0
27.5°	2859.0	2894.9	2936.2	2919.7	2890.7
30°	2700.4	2752.8	2821.8	2808.0	2787.3
32.5°	2550.1	2602.5	2697.6	2692.1	2681.1
35°	2413.5	2446.6	2558.4	2572.1	2562.5
37.5°	2283.9	2314.2	2419.1	2450.8	2442.5
40°	2147.4	2180.5	2263.2	2319.8	2322.5
42.5°	2012.2	2043.9	2111.5	2192.9	2192.9
45°	1868.8	1900.5	1962.6	2052.2	2063.2
47.5°	1728.1	1761.2	1821.9	1911.5	1929.5
50°	1590.2	1620.5	1681.2	1768.1	1795.7
52.5°	1446.7	1479.8	1539.1	1619.1	1659.1
55°	1308.8	1330.9	1395.7	1472.9	1515.7
57.5°	1165.4	1186.1	1259.2	1325.4	1369.5
60°	1027.5	1053.7	1110.2	1177.8	1228.8
62.5°	895.1	922.7	970.9	1030.2	1088.2
65°	766.8	787.5	834.4	893.7	944.7
67.5°	642.7	660.6	707.5	748.9	802.7
70°	517.2	540.6	575.1	615.1	649.6
72.5°	416.5	426.2	455.1	484.1	519.9
75°	307.6	324.1	347.5	364.1	384.8
77.5°	220.7	230.3	244.1	257.9	277.2
80°	147.6	151.7	164.1	166.9	182.0
82.5°	89.6	92.4	95.2	96.5	102.1
85°	48.3	48.3	48.3	45.5	45.5
87.5°	27.6	27.6	23.4	19.3	13.8
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)