

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: P558205

Luminaire Tested: **FUSL-12-4-LD4-3STD-30-UNV-80-96-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: P558205
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-LD4-3STD-30-UNV-80-96-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

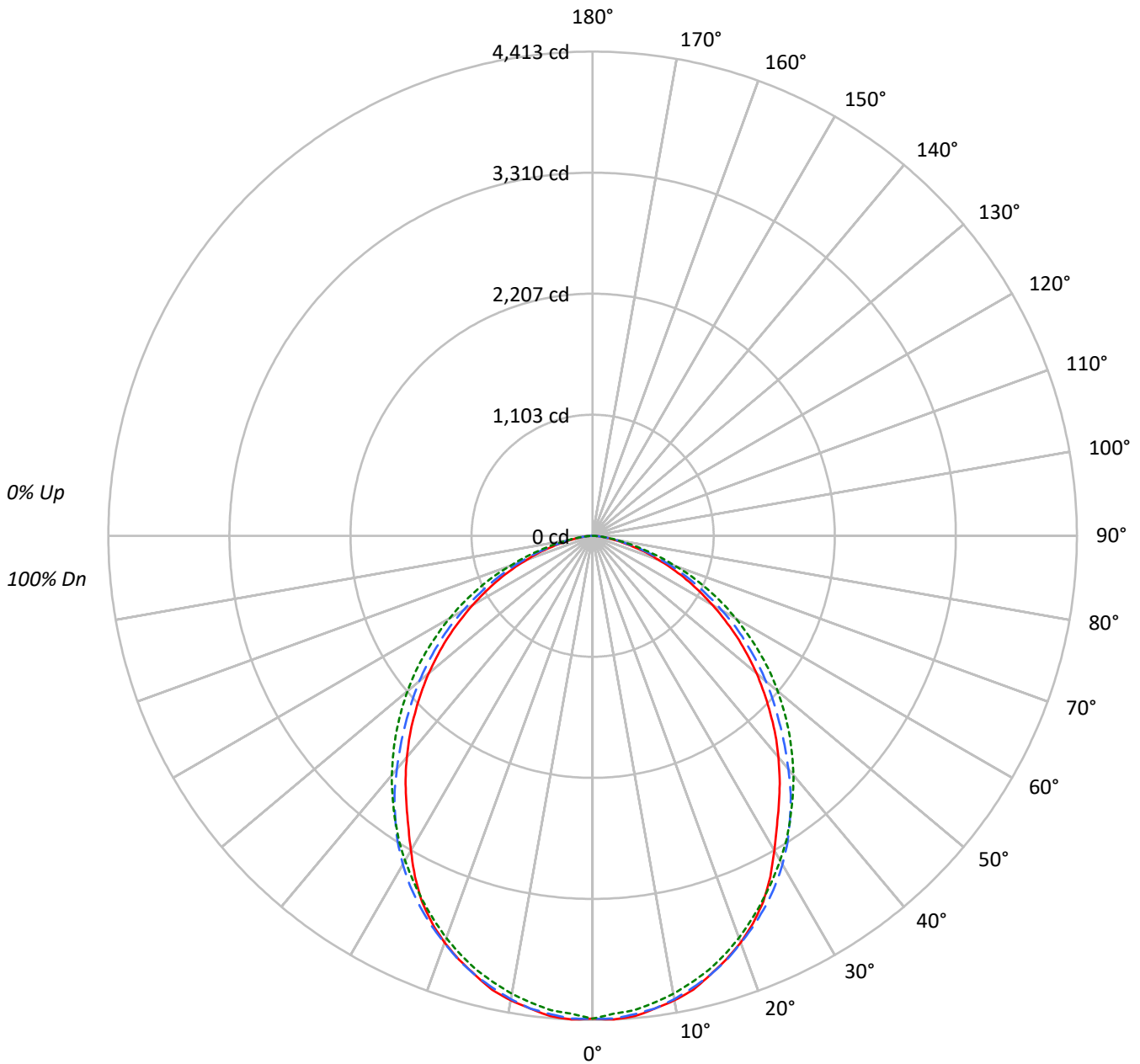
Lumens per Lamp: N/A
Luminaire Lumens: 10177.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	11844	11844	11844
5°	11875	11825	11725
10°	11749	11717	11583
15°	11541	11541	11409
20°	11297	11311	11166
25°	10924	11060	10884
30°	10287	10750	10618
35°	9721	10304	10320
40°	9248	9747	10002
45°	8719	9157	9626
50°	8162	8629	9216
55°	7528	8028	8718
60°	6780	7325	8108
65°	5986	6514	7375
70°	4989	5548	6266
75°	3921	4430	4904
80°	2803	3118	3459
85°	1828	1828	1723



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.4	4.1
10°-20°	1164.2	11.4
20°-30°	1701.2	16.7
30°-40°	1931.1	19.0
40°-50°	1864.1	18.3
50°-60°	1537.8	15.1
60°-70°	1024.0	10.1
70°-80°	458.3	4.5
80°-90°	82.0	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°	3279.7	32.2
0°-40°	5210.8	51.2
0°-60°	8612.7	84.6
0°-90°	10177.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10177.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4401	4401	4401	4401	4401	
5°	4396	4394	4378	4354	4340	416
15°	4143	4153	4143	4124	4095	1168
25°	3679	3708	3725	3698	3666	1685
35°	2959	3000	3136	3153	3142	1854
45°	2291	2330	2406	2516	2530	1768
55°	1605	1632	1711	1806	1858	1432
65°	940	966	1023	1096	1158	932
75°	377	397	426	446	472	412
85°	59	59	59	56	56	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4401.3	4401.3	4401.3	4401.3	4401.3
2.5°	4413.1	4414.8	4404.7	4377.6	4360.7
5°	4396.2	4394.5	4377.6	4353.9	4340.4
7.5°	4347.2	4350.6	4345.5	4311.7	4293.1
10°	4299.8	4301.5	4288.0	4260.9	4239.0
12.5°	4239.0	4237.3	4218.7	4205.2	4169.6
15°	4142.6	4152.7	4142.6	4124.0	4095.2
17.5°	4049.6	4049.6	4056.4	4024.2	4002.2
20°	3944.8	3949.8	3949.8	3924.5	3899.1
22.5°	3823.0	3838.2	3843.3	3816.3	3785.8
25°	3679.3	3708.0	3724.9	3697.9	3665.8
27.5°	3505.1	3549.1	3599.8	3579.5	3544.0
30°	3310.7	3374.9	3459.5	3442.6	3417.2
32.5°	3126.4	3190.6	3307.3	3300.5	3287.0
35°	2959.0	2999.6	3136.5	3153.4	3141.6
37.5°	2800.1	2837.3	2965.8	3004.6	2994.5
40°	2632.7	2673.2	2774.7	2844.0	2847.4
42.5°	2467.0	2505.8	2588.7	2688.5	2688.5
45°	2291.1	2330.0	2406.1	2516.0	2529.5
47.5°	2118.6	2159.2	2233.6	2343.5	2365.5
50°	1949.6	1986.8	2061.1	2167.7	2201.5
52.5°	1773.7	1814.3	1887.0	1985.1	2034.1
55°	1604.6	1631.7	1711.1	1805.8	1858.2
57.5°	1428.8	1454.1	1543.7	1624.9	1679.0
60°	1259.7	1291.8	1361.1	1444.0	1506.5
62.5°	1097.4	1131.2	1190.4	1263.1	1334.1
65°	940.1	965.5	1023.0	1095.7	1158.2
67.5°	787.9	809.9	867.4	918.1	984.1
70°	634.1	662.8	705.1	754.1	796.4
72.5°	510.6	522.5	558.0	593.5	637.5
75°	377.1	397.4	426.1	446.4	471.7
77.5°	270.5	282.4	299.3	316.2	339.9
80°	180.9	186.0	201.2	204.6	223.2
82.5°	109.9	113.3	116.7	118.4	125.1
85°	59.2	59.2	59.2	55.8	55.8
87.5°	33.8	33.8	28.7	23.7	16.9
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)