

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: P554245

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-81-86-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: P554245
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-12-2-LD4-1LO-40-UNV-81-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

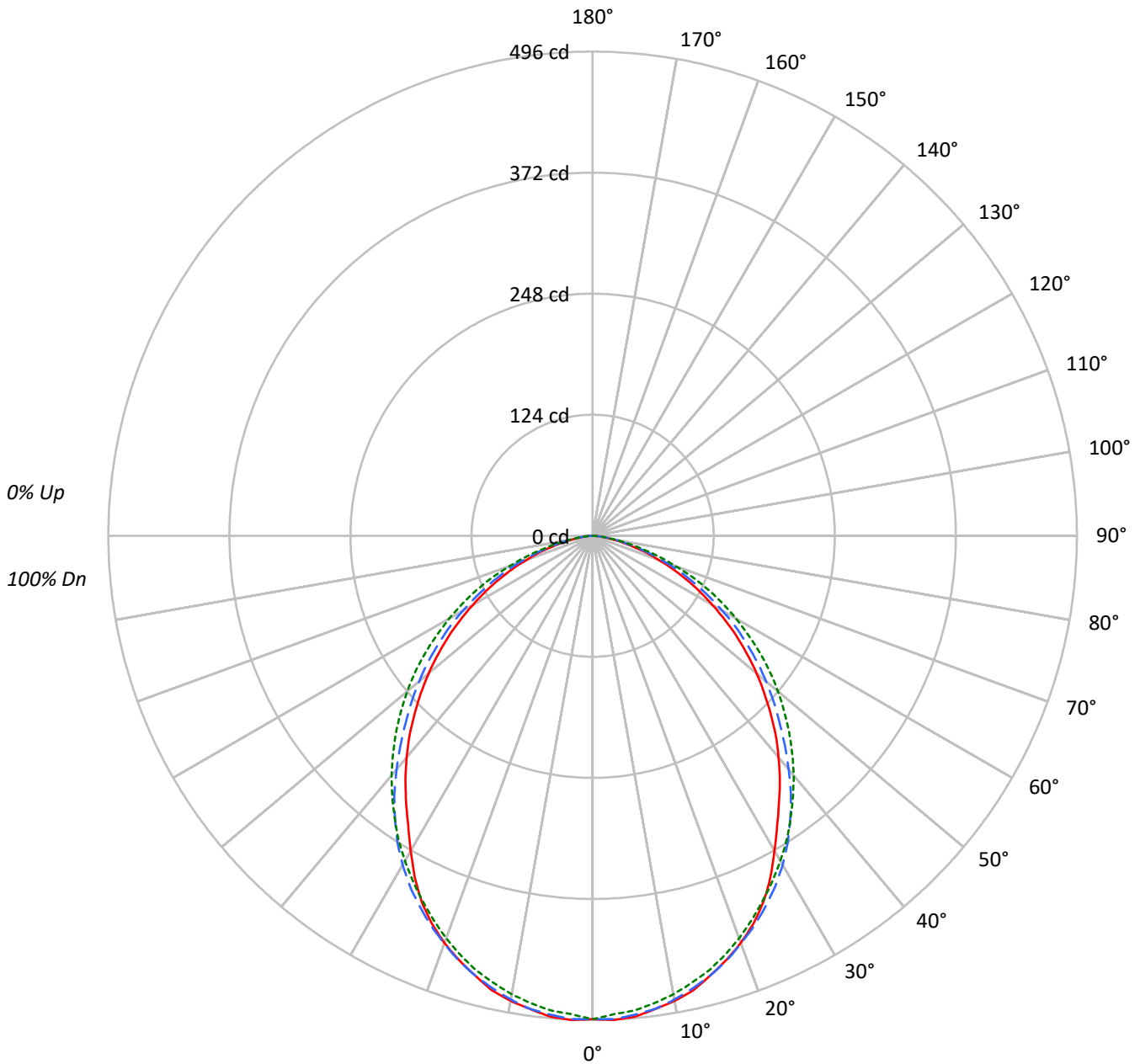
Lumens per Lamp: N/A
Luminaire Lumens: 1145.0 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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: P554245

CATALOG NUMBER: FUSL-12-2-LD4-1LO-40-UNV-81-86-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°	2665	2665	2665
5°	2672	2661	2638
10°	2644	2636	2606
15°	2597	2597	2567
20°	2542	2545	2513
25°	2458	2489	2449
30°	2315	2419	2389
35°	2187	2319	2323
40°	2081	2193	2251
45°	1962	2060	2166
50°	1836	1942	2074
55°	1694	1806	1962
60°	1525	1648	1824
65°	1347	1466	1659
70°	1122	1248	1410
75°	882	996	1104
80°	632	700	778
85°	414	414	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	4.1
10°-20°	131.0	11.4
20°-30°	191.4	16.7
30°-40°	217.3	19.0
40°-50°	209.7	18.3
50°-60°	173.0	15.1
60°-70°	115.2	10.1
70°-80°	51.6	4.5
80°-90°	9.2	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°	369.0	32.2
0°-40°	586.3	51.2
0°-60°	969.0	84.6
0°-90°	1145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1145.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	495	495	495	495	495	
5°	495	494	492	490	488	47
15°	466	467	466	464	461	131
25°	414	417	419	416	412	190
35°	333	338	353	355	354	209
45°	258	262	271	283	285	199
55°	180	184	192	203	209	161
65°	106	109	115	123	130	105
75°	42	45	48	50	53	46
85°	7	7	7	6	6	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	495.2	495.2	495.2	495.2	495.2
2.5°	496.5	496.7	495.6	492.5	490.6
5°	494.6	494.4	492.5	489.9	488.3
7.5°	489.1	489.5	488.9	485.1	483.0
10°	483.8	484.0	482.4	479.4	476.9
12.5°	476.9	476.7	474.6	473.1	469.1
15°	466.1	467.2	466.1	464.0	460.8
17.5°	455.6	455.6	456.4	452.8	450.3
20°	443.8	444.4	444.4	441.5	438.7
22.5°	430.1	431.8	432.4	429.4	425.9
25°	414.0	417.2	419.1	416.0	412.4
27.5°	394.4	399.3	405.0	402.7	398.7
30°	372.5	379.7	389.2	387.3	384.5
32.5°	351.7	359.0	372.1	371.3	369.8
35°	332.9	337.5	352.9	354.8	353.5
37.5°	315.0	319.2	333.7	338.0	336.9
40°	296.2	300.8	312.2	320.0	320.4
42.5°	277.6	281.9	291.3	302.5	302.5
45°	257.8	262.1	270.7	283.1	284.6
47.5°	238.4	242.9	251.3	263.7	266.1
50°	219.3	223.5	231.9	243.9	247.7
52.5°	199.6	204.1	212.3	223.3	228.9
55°	180.5	183.6	192.5	203.2	209.1
57.5°	160.7	163.6	173.7	182.8	188.9
60°	141.7	145.3	153.1	162.5	169.5
62.5°	123.5	127.3	133.9	142.1	150.1
65°	105.8	108.6	115.1	123.3	130.3
67.5°	88.6	91.1	97.6	103.3	110.7
70°	71.3	74.6	79.3	84.8	89.6
72.5°	57.5	58.8	62.8	66.8	71.7
75°	42.4	44.7	47.9	50.2	53.1
77.5°	30.4	31.8	33.7	35.6	38.2
80°	20.4	20.9	22.6	23.0	25.1
82.5°	12.4	12.7	13.1	13.3	14.1
85°	6.7	6.7	6.7	6.3	6.3
87.5°	3.8	3.8	3.2	2.7	1.9
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)