

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: P555284

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-82-86-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: P555284
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-LD4-2STD-40-UNV-82-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

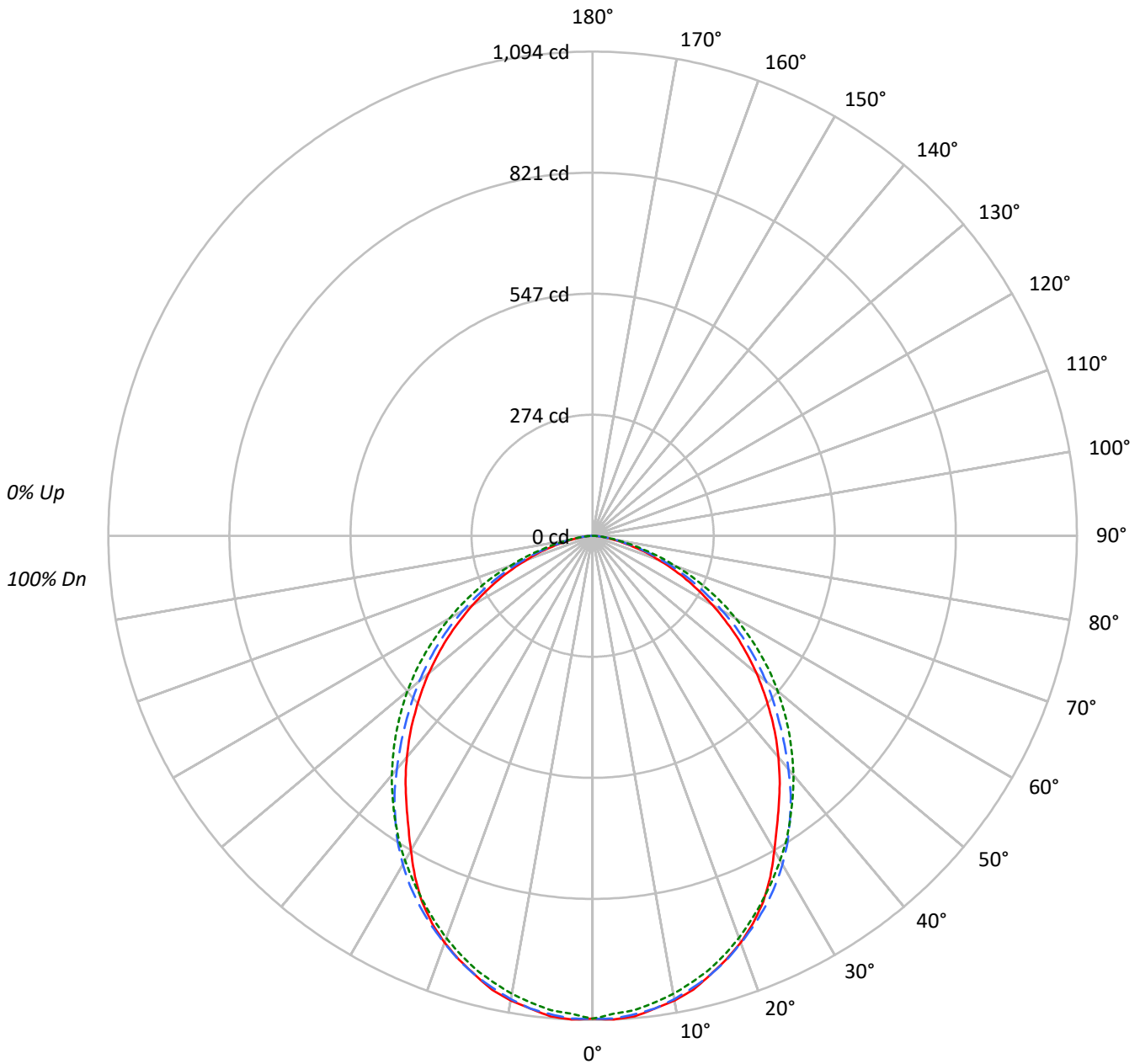
Lumens per Lamp: N/A
Luminaire Lumens: 2523.0 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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: P555284

CATALOG NUMBER: FUSL-12-2-LD4-2STD-40-UNV-82-86-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P555284

CATALOG NUMBER: FUSL-12-2-LD4-2STD-40-UNV-82-86-EDD-90

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°	5872	5872	5872
5°	5888	5863	5813
10°	5826	5809	5743
15°	5722	5722	5657
20°	5601	5608	5536
25°	5416	5484	5397
30°	5101	5330	5265
35°	4820	5109	5117
40°	4586	4833	4959
45°	4323	4540	4773
50°	4047	4279	4570
55°	3733	3980	4323
60°	3362	3632	4020
65°	2968	3230	3656
70°	2474	2751	3106
75°	1944	2196	2433
80°	1392	1547	1714
85°	908	908	852



TEST NUMBER: P555284

CATALOG NUMBER: FUSL-12-2-LD4-2STD-40-UNV-82-86-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.7	4.1
10°-20°	288.6	11.4
20°-30°	421.8	16.7
30°-40°	478.7	19.0
40°-50°	462.1	18.3
50°-60°	381.2	15.1
60°-70°	253.9	10.1
70°-80°	113.6	4.5
80°-90°	20.3	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°	813.1	32.2
0°-40°	1291.8	51.2
0°-60°	2135.2	84.6
0°-90°	2523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2523.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1091	1091	1091	1091	1091	
5°	1090	1090	1085	1079	1076	103
15°	1027	1030	1027	1022	1015	290
25°	912	919	924	917	909	418
35°	734	744	778	782	779	460
45°	568	578	596	624	627	438
55°	398	404	424	448	461	355
65°	233	239	254	272	287	231
75°	94	98	106	111	117	102
85°	15	15	15	14	14	20
90°	0	0	0	0	0	



TEST NUMBER: P555284

CATALOG NUMBER: FUSL-12-2-LD4-2STD-40-UNV-82-86-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1091.1	1091.1	1091.1	1091.1	1091.1
2.5°	1094.1	1094.5	1092.0	1085.3	1081.1
5°	1089.9	1089.5	1085.3	1079.4	1076.0
7.5°	1077.7	1078.6	1077.3	1068.9	1064.3
10°	1066.0	1066.4	1063.0	1056.3	1050.9
12.5°	1050.9	1050.5	1045.9	1042.5	1033.7
15°	1027.0	1029.5	1027.0	1022.4	1015.3
17.5°	1003.9	1003.9	1005.6	997.7	992.2
20°	978.0	979.2	979.2	972.9	966.6
22.5°	947.8	951.5	952.8	946.1	938.5
25°	912.1	919.3	923.5	916.8	908.8
27.5°	869.0	879.9	892.4	887.4	878.6
30°	820.8	836.7	857.6	853.5	847.2
32.5°	775.1	791.0	819.9	818.2	814.9
35°	733.6	743.6	777.6	781.8	778.8
37.5°	694.2	703.4	735.2	744.9	742.4
40°	652.7	662.7	687.9	705.1	705.9
42.5°	611.6	621.2	641.8	666.5	666.5
45°	568.0	577.6	596.5	623.7	627.1
47.5°	525.2	535.3	553.7	581.0	586.4
50°	483.3	492.5	511.0	537.4	545.8
52.5°	439.7	449.8	467.8	492.1	504.3
55°	397.8	404.5	424.2	447.7	460.7
57.5°	354.2	360.5	382.7	402.8	416.2
60°	312.3	320.3	337.4	358.0	373.5
62.5°	272.0	280.4	295.1	313.1	330.7
65°	233.1	239.4	253.6	271.6	287.1
67.5°	195.3	200.8	215.0	227.6	244.0
70°	157.2	164.3	174.8	187.0	197.4
72.5°	126.6	129.5	138.3	147.1	158.0
75°	93.5	98.5	105.6	110.7	117.0
77.5°	67.1	70.0	74.2	78.4	84.3
80°	44.9	46.1	49.9	50.7	55.3
82.5°	27.2	28.1	28.9	29.3	31.0
85°	14.7	14.7	14.7	13.8	13.8
87.5°	8.4	8.4	7.1	5.9	4.2
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)