

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: P554576

Luminaire Tested: **FUSL-12-2-LD4-1STD-50-UNV-82-84-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: P554576
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-LD4-1STD-50-UNV-82-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

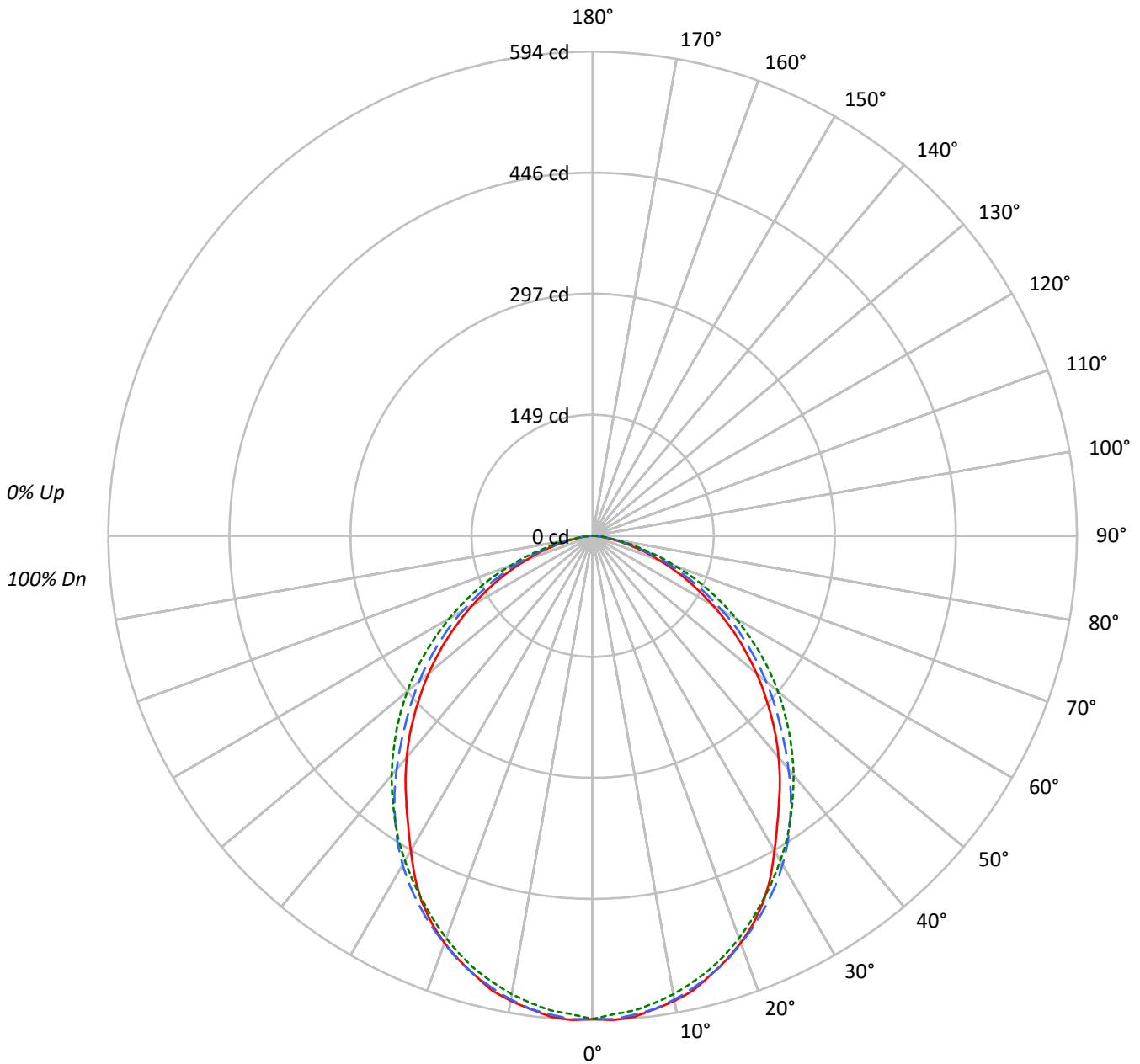
Lumens per Lamp: N/A
Luminaire Lumens: 1371.0 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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

TEST NUMBER: P554576

CATALOG NUMBER: FUSL-12-2-LD4-1STD-50-UNV-82-84-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554576

CATALOG NUMBER: FUSL-12-2-LD4-1STD-50-UNV-82-84-EDD-90

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3191	3191	3191
5°	3199	3186	3159
10°	3166	3157	3121
15°	3110	3110	3074
20°	3044	3048	3009
25°	2944	2980	2932
30°	2772	2896	2861
35°	2619	2776	2780
40°	2492	2626	2695
45°	2349	2467	2594
50°	2199	2325	2483
55°	2029	2163	2349
60°	1827	1974	2185
65°	1612	1755	1987
70°	1344	1495	1688
75°	1056	1194	1323
80°	756	840	933
85°	494	494	463



TEST NUMBER: P554576

CATALOG NUMBER: FUSL-12-2-LD4-1STD-50-UNV-82-84-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.8	4.1
10°-20°	156.8	11.4
20°-30°	229.2	16.7
30°-40°	260.1	19.0
40°-50°	251.1	18.3
50°-60°	207.2	15.1
60°-70°	138.0	10.1
70°-80°	61.7	4.5
80°-90°	11.1	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°	441.8	32.2
0°-40°	702.0	51.2
0°-60°	1160.3	84.6
0°-90°	1371.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1371.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	593	593	593	593	593	
5°	592	592	590	586	585	56
15°	558	559	558	556	552	157
25°	496	500	502	498	494	227
35°	399	404	422	425	423	250
45°	309	314	324	339	341	238
55°	216	220	230	243	250	193
65°	127	130	138	148	156	126
75°	51	54	57	60	64	56
85°	8	8	8	8	8	11
90°	0	0	0	0	0	



TEST NUMBER: P554576

CATALOG NUMBER: FUSL-12-2-LD4-1STD-50-UNV-82-84-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	592.9	592.9	592.9	592.9	592.9
2.5°	594.5	594.7	593.4	589.7	587.5
5°	592.2	592.0	589.7	586.5	584.7
7.5°	585.6	586.1	585.4	580.8	578.3
10°	579.3	579.5	577.7	574.0	571.1
12.5°	571.1	570.8	568.3	566.5	561.7
15°	558.1	559.4	558.1	555.6	551.7
17.5°	545.5	545.5	546.5	542.1	539.2
20°	531.4	532.1	532.1	528.7	525.3
22.5°	515.0	517.1	517.8	514.1	510.0
25°	495.7	499.5	501.8	498.2	493.8
27.5°	472.2	478.1	485.0	482.2	477.4
30°	446.0	454.7	466.0	463.8	460.4
32.5°	421.2	429.8	445.5	444.6	442.8
35°	398.6	404.1	422.5	424.8	423.2
37.5°	377.2	382.2	399.5	404.8	403.4
40°	354.7	360.1	373.8	383.1	383.6
42.5°	332.3	337.6	348.7	362.2	362.2
45°	308.6	313.9	324.1	338.9	340.8
47.5°	285.4	290.9	300.9	315.7	318.7
50°	262.6	267.6	277.7	292.0	296.6
52.5°	238.9	244.4	254.2	267.4	274.0
55°	216.2	219.8	230.5	243.3	250.3
57.5°	192.5	195.9	208.0	218.9	226.2
60°	169.7	174.0	183.4	194.5	203.0
62.5°	147.8	152.4	160.4	170.2	179.7
65°	126.6	130.1	137.8	147.6	156.0
67.5°	106.1	109.1	116.9	123.7	132.6
70°	85.4	89.3	95.0	101.6	107.3
72.5°	68.8	70.4	75.2	80.0	85.9
75°	50.8	53.5	57.4	60.1	63.6
77.5°	36.4	38.0	40.3	42.6	45.8
80°	24.4	25.1	27.1	27.6	30.1
82.5°	14.8	15.3	15.7	15.9	16.9
85°	8.0	8.0	8.0	7.5	7.5
87.5°	4.6	4.6	3.9	3.2	2.3
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)