

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: P554962

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-UNV-82-85-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: P554962
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-LD4-2LO-35-UNV-82-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

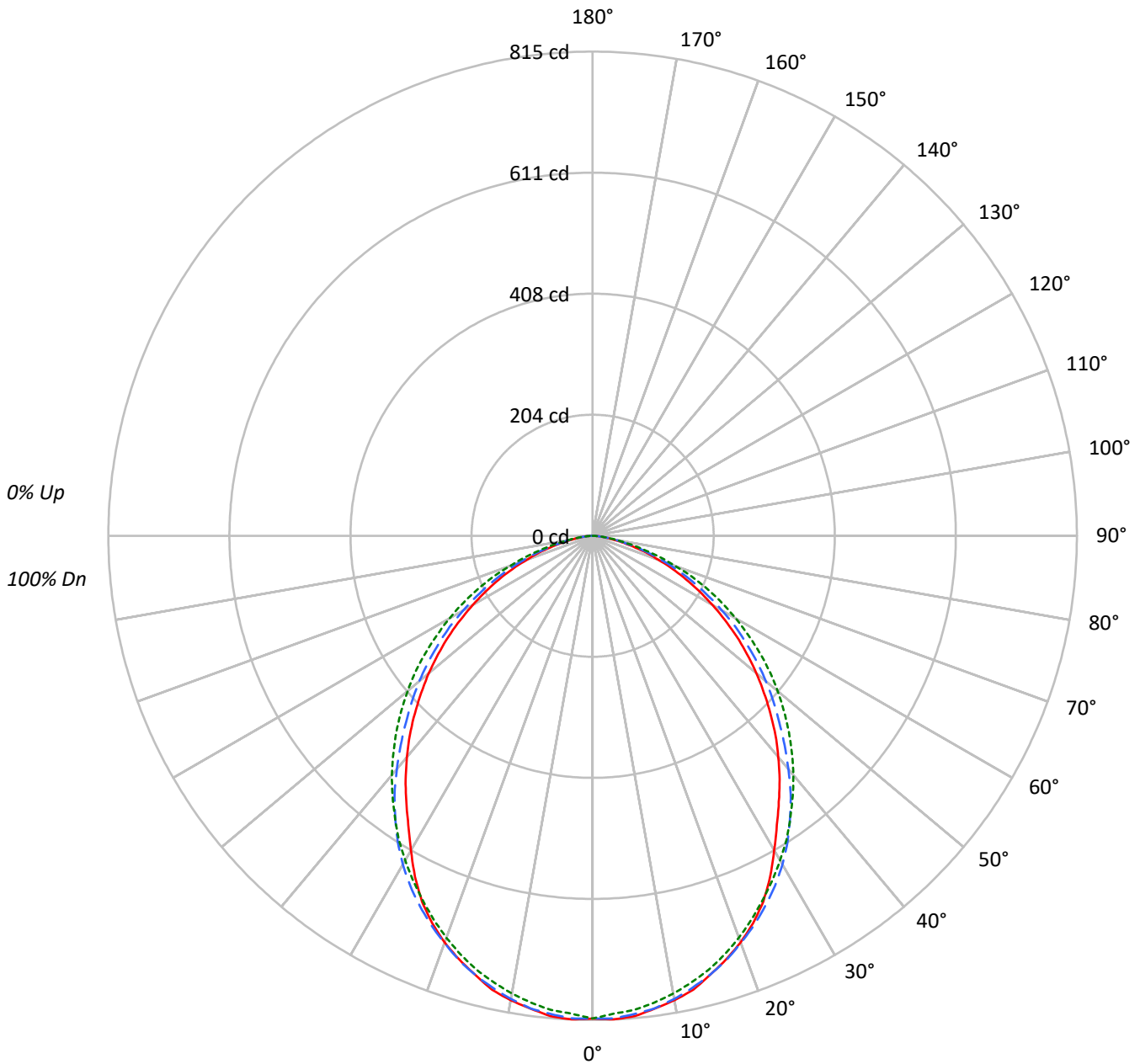
Lumens per Lamp: N/A
Luminaire Lumens: 1879.0 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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: P554962

CATALOG NUMBER: FUSL-12-2-LD4-2LO-35-UNV-82-85-EDD-90

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°	4373	4373	4373
5°	4385	4366	4330
10°	4339	4327	4277
15°	4262	4262	4213
20°	4171	4177	4123
25°	4034	4084	4019
30°	3799	3969	3921
35°	3589	3805	3811
40°	3415	3599	3693
45°	3220	3381	3554
50°	3013	3187	3404
55°	2780	2964	3219
60°	2504	2705	2995
65°	2211	2406	2723
70°	1843	2049	2313
75°	1447	1637	1811
80°	1035	1153	1277
85°	673	673	636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	4.1
10°-20°	214.9	11.4
20°-30°	314.1	16.7
30°-40°	356.5	19.0
40°-50°	344.2	18.3
50°-60°	283.9	15.1
60°-70°	189.1	10.1
70°-80°	84.6	4.5
80°-90°	15.1	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°	605.5	32.2
0°-40°	962.1	51.2
0°-60°	1590.2	84.6
0°-90°	1879.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1879.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	813	813	813	813	813	
5°	812	811	808	804	801	77
15°	765	767	765	761	756	216
25°	679	685	688	683	677	311
35°	546	554	579	582	580	342
45°	423	430	444	464	467	326
55°	296	301	316	333	343	264
65°	174	178	189	202	214	172
75°	70	73	79	82	87	76
85°	11	11	11	10	10	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	812.6	812.6	812.6	812.6	812.6
2.5°	814.8	815.1	813.2	808.2	805.1
5°	811.7	811.4	808.2	803.9	801.4
7.5°	802.6	803.3	802.3	796.1	792.6
10°	793.9	794.2	791.7	786.7	782.6
12.5°	782.6	782.3	778.9	776.4	769.8
15°	764.9	766.7	764.9	761.4	756.1
17.5°	747.7	747.7	748.9	743.0	738.9
20°	728.3	729.3	729.3	724.6	719.9
22.5°	705.9	708.7	709.6	704.6	699.0
25°	679.3	684.6	687.7	682.7	676.8
27.5°	647.2	655.3	664.6	660.9	654.3
30°	611.3	623.1	638.7	635.6	630.9
32.5°	577.2	589.1	610.6	609.4	606.9
35°	546.3	553.8	579.1	582.2	580.0
37.5°	517.0	523.8	547.6	554.8	552.9
40°	486.1	493.6	512.3	525.1	525.7
42.5°	455.5	462.7	478.0	496.4	496.4
45°	423.0	430.2	444.2	464.5	467.0
47.5°	391.2	398.7	412.4	432.7	436.7
50°	359.9	366.8	380.6	400.2	406.5
52.5°	327.5	335.0	348.4	366.5	375.6
55°	296.3	301.3	315.9	333.4	343.1
57.5°	263.8	268.5	285.0	300.0	310.0
60°	232.6	238.5	251.3	266.6	278.2
62.5°	202.6	208.9	219.8	233.2	246.3
65°	173.6	178.3	188.9	202.3	213.8
67.5°	145.5	149.5	160.2	169.5	181.7
70°	117.1	122.4	130.2	139.2	147.0
72.5°	94.3	96.5	103.0	109.6	117.7
75°	69.6	73.4	78.7	82.4	87.1
77.5°	49.9	52.1	55.3	58.4	62.7
80°	33.4	34.3	37.2	37.8	41.2
82.5°	20.3	20.9	21.5	21.9	23.1
85°	10.9	10.9	10.9	10.3	10.3
87.5°	6.2	6.2	5.3	4.4	3.1
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)