

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: P554489

Luminaire Tested: **FUSL-12-2-LD4-1STD-40-UNV-80-88-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: P554489
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-40-UNV-80-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

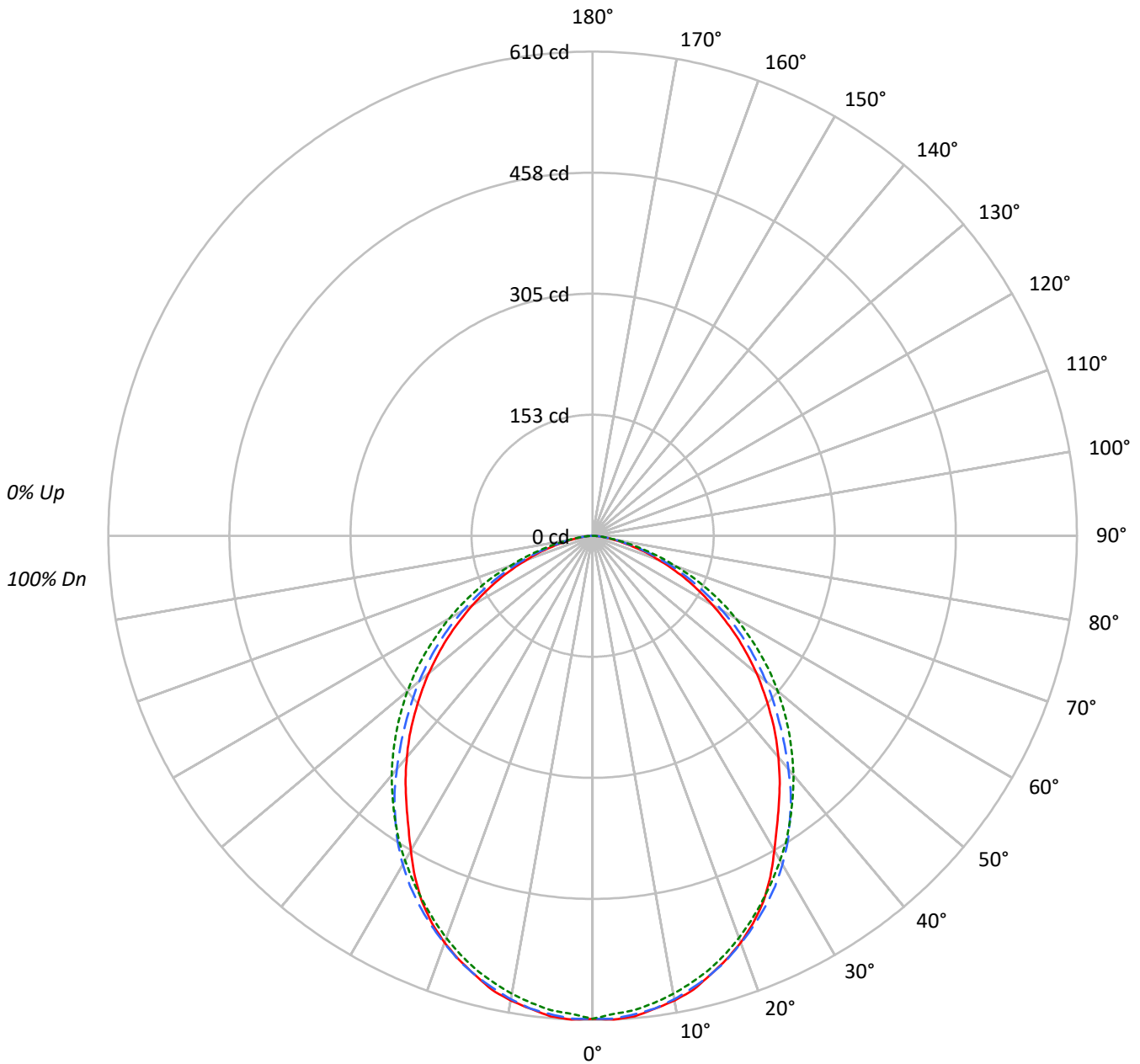
Lumens per Lamp: N/A
Luminaire Lumens: 1407.0 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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: P554489

CATALOG NUMBER: FUSL-12-2-LD4-1STD-40-UNV-80-88-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°	3275	3275	3275
5°	3284	3270	3242
10°	3249	3240	3202
15°	3191	3191	3155
20°	3124	3128	3088
25°	3021	3058	3010
30°	2844	2972	2936
35°	2688	2849	2853
40°	2557	2695	2766
45°	2411	2531	2662
50°	2256	2386	2549
55°	2081	2220	2411
60°	1875	2026	2242
65°	1656	1801	2039
70°	1380	1534	1733
75°	1083	1225	1356
80°	775	862	958
85°	506	506	475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	4.1
10°-20°	160.9	11.4
20°-30°	235.2	16.7
30°-40°	267.0	19.0
40°-50°	257.7	18.3
50°-60°	212.6	15.1
60°-70°	141.6	10.1
70°-80°	63.3	4.5
80°-90°	11.3	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°	453.4	32.2
0°-40°	720.4	51.2
0°-60°	1190.7	84.6
0°-90°	1407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1407.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	608	608	608	608	608	
5°	608	608	605	602	600	58
15°	573	574	573	570	566	161
25°	509	513	515	511	507	233
35°	409	415	434	436	434	256
45°	317	322	333	348	350	244
55°	222	226	237	250	257	198
65°	130	134	141	152	160	129
75°	52	55	59	62	65	57
85°	8	8	8	8	8	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	608.5	608.5	608.5	608.5	608.5
2.5°	610.1	610.4	609.0	605.2	602.9
5°	607.8	607.6	605.2	601.9	600.1
7.5°	601.0	601.5	600.8	596.1	593.5
10°	594.5	594.7	592.8	589.1	586.0
12.5°	586.0	585.8	583.2	581.4	576.5
15°	572.7	574.1	572.7	570.2	566.2
17.5°	559.9	559.9	560.8	556.4	553.3
20°	545.4	546.1	546.1	542.6	539.1
22.5°	528.5	530.6	531.3	527.6	523.4
25°	508.7	512.6	515.0	511.2	506.8
27.5°	484.6	490.7	497.7	494.9	490.0
30°	457.7	466.6	478.3	475.9	472.4
32.5°	432.2	441.1	457.2	456.3	454.4
35°	409.1	414.7	433.6	436.0	434.3
37.5°	387.1	392.3	410.0	415.4	414.0
40°	364.0	369.6	383.6	393.2	393.7
42.5°	341.1	346.4	357.9	371.7	371.7
45°	316.8	322.1	332.6	347.8	349.7
47.5°	292.9	298.5	308.8	324.0	327.0
50°	269.5	274.7	285.0	299.7	304.4
52.5°	245.2	250.8	260.9	274.4	281.2
55°	221.8	225.6	236.6	249.7	256.9
57.5°	197.5	201.0	213.4	224.6	232.1
60°	174.2	178.6	188.2	199.6	208.3
62.5°	151.7	156.4	164.6	174.6	184.4
65°	130.0	133.5	141.4	151.5	160.1
67.5°	108.9	112.0	119.9	126.9	136.1
70°	87.7	91.6	97.5	104.3	110.1
72.5°	70.6	72.2	77.1	82.1	88.1
75°	52.1	54.9	58.9	61.7	65.2
77.5°	37.4	39.0	41.4	43.7	47.0
80°	25.0	25.7	27.8	28.3	30.9
82.5°	15.2	15.7	16.1	16.4	17.3
85°	8.2	8.2	8.2	7.7	7.7
87.5°	4.7	4.7	4.0	3.3	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)