

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: P553928

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-81-88-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: P553928
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-LD4-1HI-35-UNV-81-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

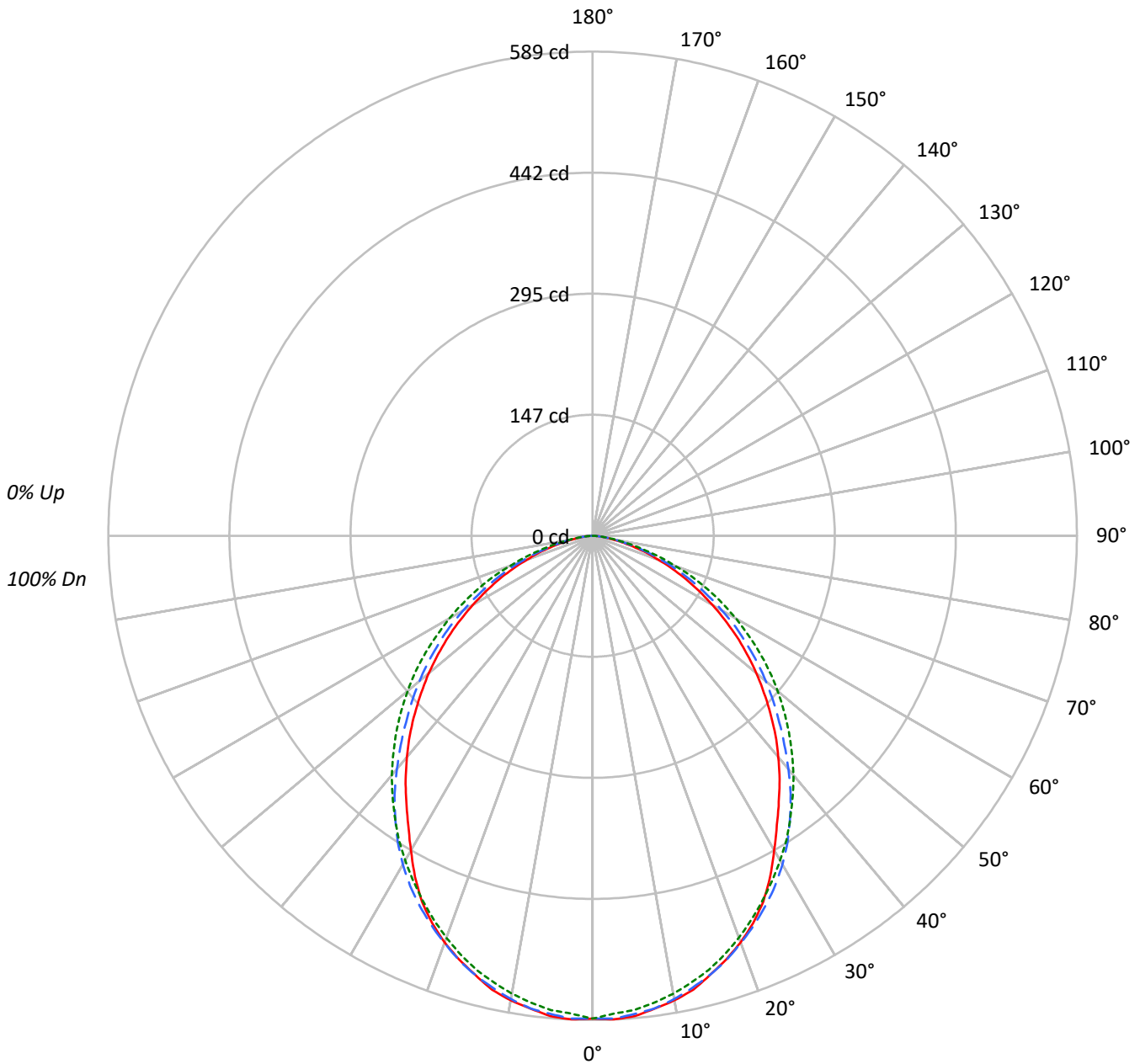
Lumens per Lamp: N/A
Luminaire Lumens: 1358.0 lumens
Efficiency: N/A
Efficacy: 62.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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

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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°	3161	3161	3161
5°	3169	3156	3129
10°	3136	3127	3091
15°	3080	3080	3045
20°	3015	3019	2980
25°	2916	2952	2905
30°	2746	2869	2834
35°	2594	2750	2754
40°	2468	2601	2670
45°	2327	2444	2569
50°	2178	2303	2460
55°	2009	2142	2327
60°	1809	1955	2164
65°	1597	1738	1969
70°	1331	1481	1673
75°	1046	1183	1308
80°	747	831	924
85°	488	488	457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	4.1
10°-20°	155.3	11.4
20°-30°	227.0	16.7
30°-40°	257.7	19.0
40°-50°	248.7	18.3
50°-60°	205.2	15.1
60°-70°	136.6	10.1
70°-80°	61.1	4.5
80°-90°	10.9	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°	437.6	32.2
0°-40°	695.3	51.2
0°-60°	1149.3	84.6
0°-90°	1358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1358.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	587	587	587	587	587	
5°	587	586	584	581	579	56
15°	553	554	553	550	546	156
25°	491	495	497	493	489	225
35°	395	400	418	421	419	247
45°	306	311	321	336	338	236
55°	214	218	228	241	248	191
65°	125	129	136	146	155	124
75°	50	53	57	60	63	55
85°	8	8	8	7	7	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	587.3	587.3	587.3	587.3	587.3
2.5°	588.9	589.1	587.8	584.1	581.9
5°	586.6	586.4	584.1	581.0	579.2
7.5°	580.1	580.5	579.9	575.3	572.9
10°	573.8	574.0	572.2	568.6	565.6
12.5°	565.6	565.4	562.9	561.1	556.4
15°	552.8	554.1	552.8	550.3	546.5
17.5°	540.4	540.4	541.3	537.0	534.1
20°	526.4	527.1	527.1	523.7	520.3
22.5°	510.1	512.2	512.8	509.2	505.2
25°	491.0	494.8	497.1	493.4	489.2
27.5°	467.7	473.6	480.4	477.6	472.9
30°	441.8	450.3	461.6	459.4	456.0
32.5°	417.2	425.8	441.3	440.4	438.6
35°	394.8	400.3	418.5	420.8	419.2
37.5°	373.6	378.6	395.7	400.9	399.6
40°	351.3	356.7	370.2	379.5	380.0
42.5°	329.2	334.4	345.4	358.7	358.7
45°	305.7	310.9	321.1	335.7	337.5
47.5°	282.7	288.1	298.0	312.7	315.6
50°	260.1	265.1	275.0	289.3	293.8
52.5°	236.7	242.1	251.8	264.9	271.4
55°	214.1	217.7	228.3	241.0	248.0
57.5°	190.7	194.0	206.0	216.8	224.0
60°	168.1	172.4	181.6	192.7	201.0
62.5°	146.4	150.9	158.8	168.5	178.0
65°	125.4	128.8	136.5	146.2	154.6
67.5°	105.1	108.1	115.7	122.5	131.3
70°	84.6	88.4	94.1	100.6	106.3
72.5°	68.1	69.7	74.5	79.2	85.1
75°	50.3	53.0	56.9	59.6	62.9
77.5°	36.1	37.7	39.9	42.2	45.4
80°	24.1	24.8	26.8	27.3	29.8
82.5°	14.7	15.1	15.6	15.8	16.7
85°	7.9	7.9	7.9	7.4	7.4
87.5°	4.5	4.5	3.8	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)