

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: P554416

Luminaire Tested: **FUSL-12-2-LD4-1STD-35-UNV-80-84-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: P554416
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-35-UNV-80-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

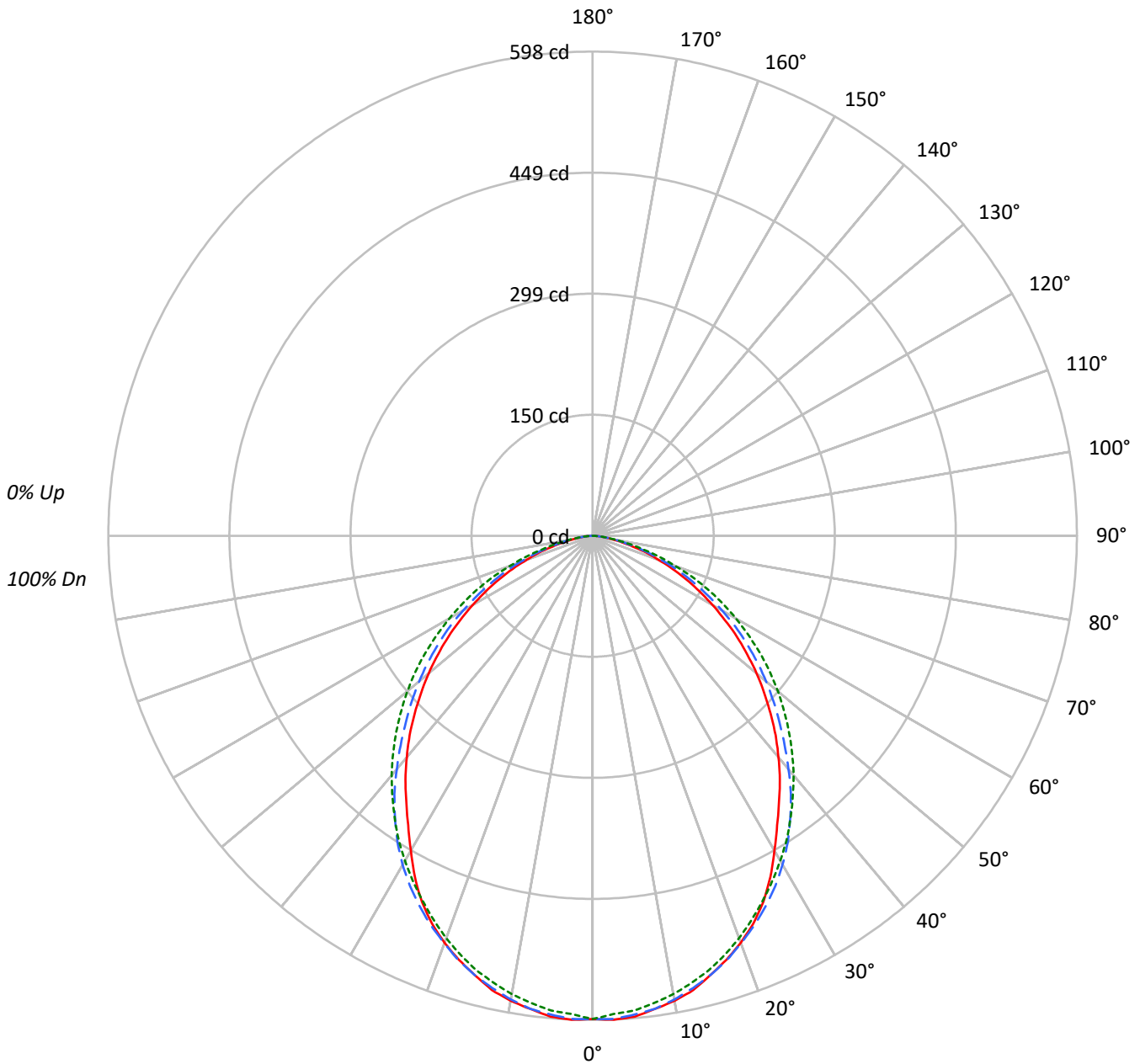
Lumens per Lamp: N/A
Luminaire Lumens: 1380.0 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	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°	3212	3212	3212
5°	3220	3207	3180
10°	3187	3178	3141
15°	3130	3130	3094
20°	3064	3068	3028
25°	2963	2999	2952
30°	2790	2915	2880
35°	2636	2794	2799
40°	2508	2643	2713
45°	2365	2484	2611
50°	2214	2340	2499
55°	2042	2177	2365
60°	1838	1987	2199
65°	1624	1766	2001
70°	1353	1504	1699
75°	1063	1202	1331
80°	759	846	939
85°	494	494	469



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	4.1
10°-20°	157.9	11.4
20°-30°	230.7	16.7
30°-40°	261.8	19.0
40°-50°	252.8	18.3
50°-60°	208.5	15.1
60°-70°	138.9	10.1
70°-80°	62.1	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°	444.7	32.2
0°-40°	706.6	51.2
0°-60°	1167.9	84.6
0°-90°	1380.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1380.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	597	597	597	597	597	
5°	596	596	594	590	589	56
15°	562	563	562	559	555	158
25°	499	503	505	501	497	228
35°	401	407	425	428	426	251
45°	311	316	326	341	343	240
55°	218	221	232	245	252	194
65°	128	131	139	149	157	126
75°	51	54	58	60	64	56
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°	596.8	596.8	596.8	596.8	596.8
2.5°	598.4	598.6	597.3	593.6	591.3
5°	596.1	595.9	593.6	590.4	588.6
7.5°	589.5	589.9	589.2	584.7	582.1
10°	583.1	583.3	581.5	577.8	574.8
12.5°	574.8	574.6	572.1	570.2	565.4
15°	561.7	563.1	561.7	559.2	555.3
17.5°	549.1	549.1	550.0	545.7	542.7
20°	534.9	535.6	535.6	532.2	528.7
22.5°	518.4	520.5	521.2	517.5	513.4
25°	498.9	502.8	505.1	501.4	497.1
27.5°	475.3	481.3	488.1	485.4	480.6
30°	448.9	457.6	469.1	466.8	463.4
32.5°	423.9	432.7	448.5	447.6	445.7
35°	401.2	406.7	425.3	427.6	426.0
37.5°	379.7	384.7	402.2	407.4	406.1
40°	357.0	362.5	376.2	385.6	386.1
42.5°	334.5	339.8	351.0	364.6	364.6
45°	310.7	315.9	326.3	341.2	343.0
47.5°	287.3	292.8	302.9	317.8	320.8
50°	264.4	269.4	279.5	293.9	298.5
52.5°	240.5	246.0	255.9	269.2	275.8
55°	217.6	221.3	232.0	244.9	252.0
57.5°	193.7	197.2	209.3	220.3	227.7
60°	170.8	175.2	184.6	195.8	204.3
62.5°	148.8	153.4	161.4	171.3	180.9
65°	127.5	130.9	138.7	148.6	157.1
67.5°	106.8	109.8	117.6	124.5	133.4
70°	86.0	89.9	95.6	102.3	108.0
72.5°	69.2	70.8	75.7	80.5	86.4
75°	51.1	53.9	57.8	60.5	64.0
77.5°	36.7	38.3	40.6	42.9	46.1
80°	24.5	25.2	27.3	27.7	30.3
82.5°	14.9	15.4	15.8	16.0	17.0
85°	8.0	8.0	8.0	7.6	7.6
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)