

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: P554417

Luminaire Tested: **FUSL-12-2-LD4-1STD-35-UNV-80-84-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: P554417
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
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

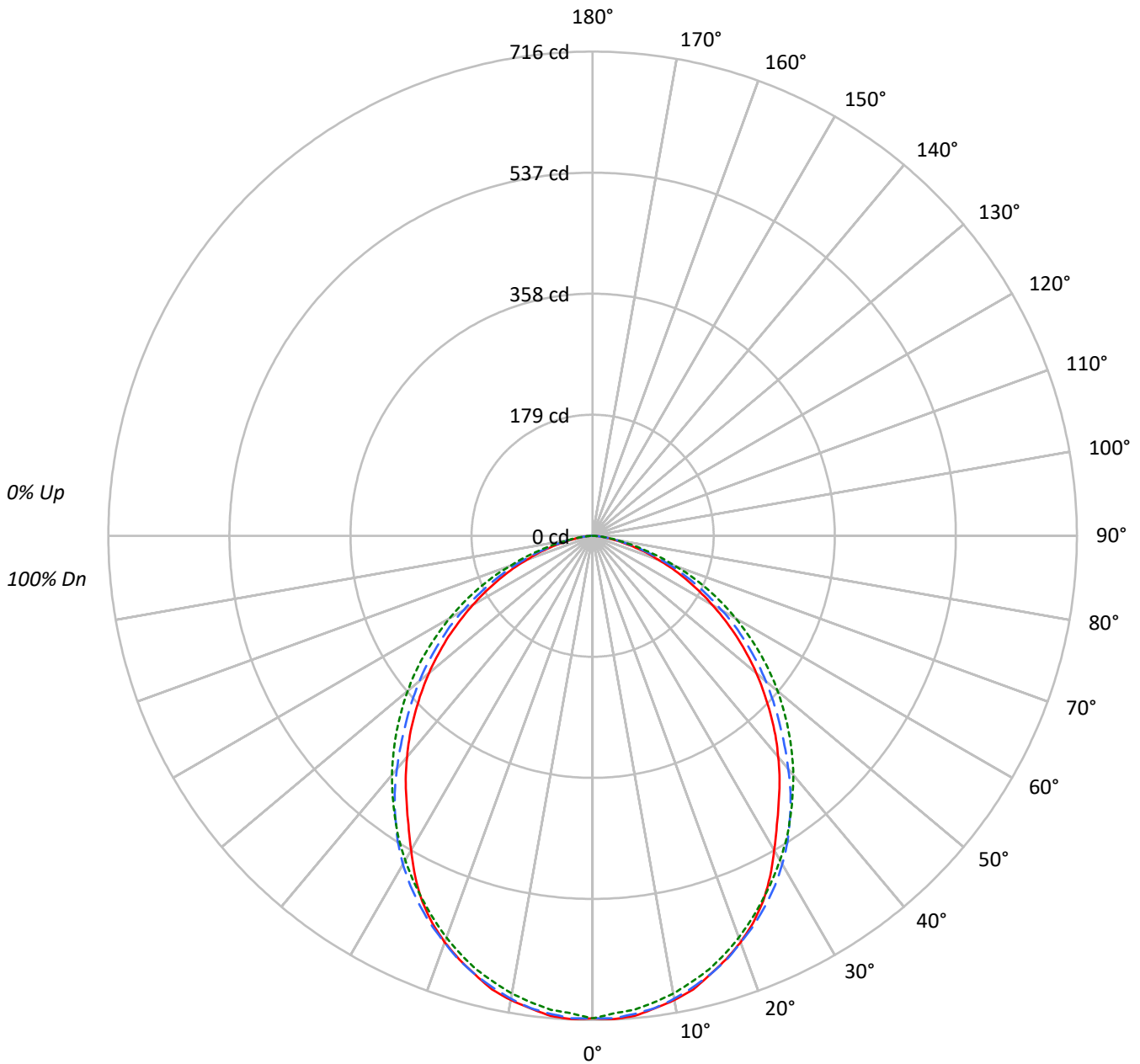
Lumens per Lamp: N/A
Luminaire Lumens: 1650.0 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	3841	3841	3841
5°	3851	3834	3802
10°	3810	3799	3756
15°	3742	3742	3700
20°	3663	3668	3621
25°	3542	3586	3529
30°	3336	3486	3443
35°	3152	3341	3346
40°	2999	3161	3243
45°	2828	2969	3121
50°	2647	2798	2988
55°	2441	2603	2827
60°	2198	2376	2630
65°	1941	2113	2392
70°	1618	1799	2031
75°	1271	1437	1591
80°	908	1010	1122
85°	593	593	556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	4.1
10°-20°	188.7	11.4
20°-30°	275.8	16.7
30°-40°	313.1	19.0
40°-50°	302.2	18.3
50°-60°	249.3	15.1
60°-70°	166.0	10.1
70°-80°	74.3	4.5
80°-90°	13.3	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°	531.7	32.2
0°-40°	844.8	51.2
0°-60°	1396.4	84.6
0°-90°	1650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1650.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	714	714	714	714	714	
5°	713	712	710	706	704	67
15°	672	673	672	669	664	189
25°	596	601	604	600	594	273
35°	480	486	508	511	509	301
45°	372	378	390	408	410	287
55°	260	264	277	293	301	232
65°	152	156	166	178	188	151
75°	61	64	69	72	76	67
85°	10	10	10	9	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	713.6	713.6	713.6	713.6	713.6
2.5°	715.5	715.8	714.1	709.7	707.0
5°	712.8	712.5	709.7	705.9	703.7
7.5°	704.8	705.4	704.5	699.1	696.0
10°	697.1	697.4	695.2	690.8	687.3
12.5°	687.3	687.0	684.0	681.8	676.0
15°	671.6	673.3	671.6	668.6	664.0
17.5°	656.6	656.6	657.7	652.4	648.9
20°	639.6	640.4	640.4	636.3	632.2
22.5°	619.8	622.3	623.1	618.7	613.8
25°	596.5	601.2	603.9	599.5	594.3
27.5°	568.3	575.4	583.6	580.4	574.6
30°	536.8	547.2	560.9	558.1	554.0
32.5°	506.9	517.3	536.2	535.1	532.9
35°	479.7	486.3	508.5	511.3	509.3
37.5°	454.0	460.0	480.8	487.1	485.5
40°	426.8	433.4	449.9	461.1	461.6
42.5°	400.0	406.3	419.7	435.9	435.9
45°	371.5	377.8	390.1	407.9	410.1
47.5°	343.5	350.1	362.1	380.0	383.5
50°	316.1	322.1	334.2	351.4	356.9
52.5°	287.6	294.2	305.9	321.8	329.8
55°	260.2	264.5	277.4	292.8	301.3
57.5°	231.6	235.8	250.3	263.4	272.2
60°	204.2	209.4	220.7	234.1	244.3
62.5°	177.9	183.4	193.0	204.8	216.3
65°	152.4	156.5	165.9	177.6	187.8
67.5°	127.7	131.3	140.6	148.9	159.5
70°	102.8	107.5	114.3	122.3	129.1
72.5°	82.8	84.7	90.5	96.2	103.4
75°	61.1	64.4	69.1	72.4	76.5
77.5°	43.9	45.8	48.5	51.3	55.1
80°	29.3	30.2	32.6	33.2	36.2
82.5°	17.8	18.4	18.9	19.2	20.3
85°	9.6	9.6	9.6	9.0	9.0
87.5°	5.5	5.5	4.7	3.8	2.7
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)