

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: P553959

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-93-87-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: P553959
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-93-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

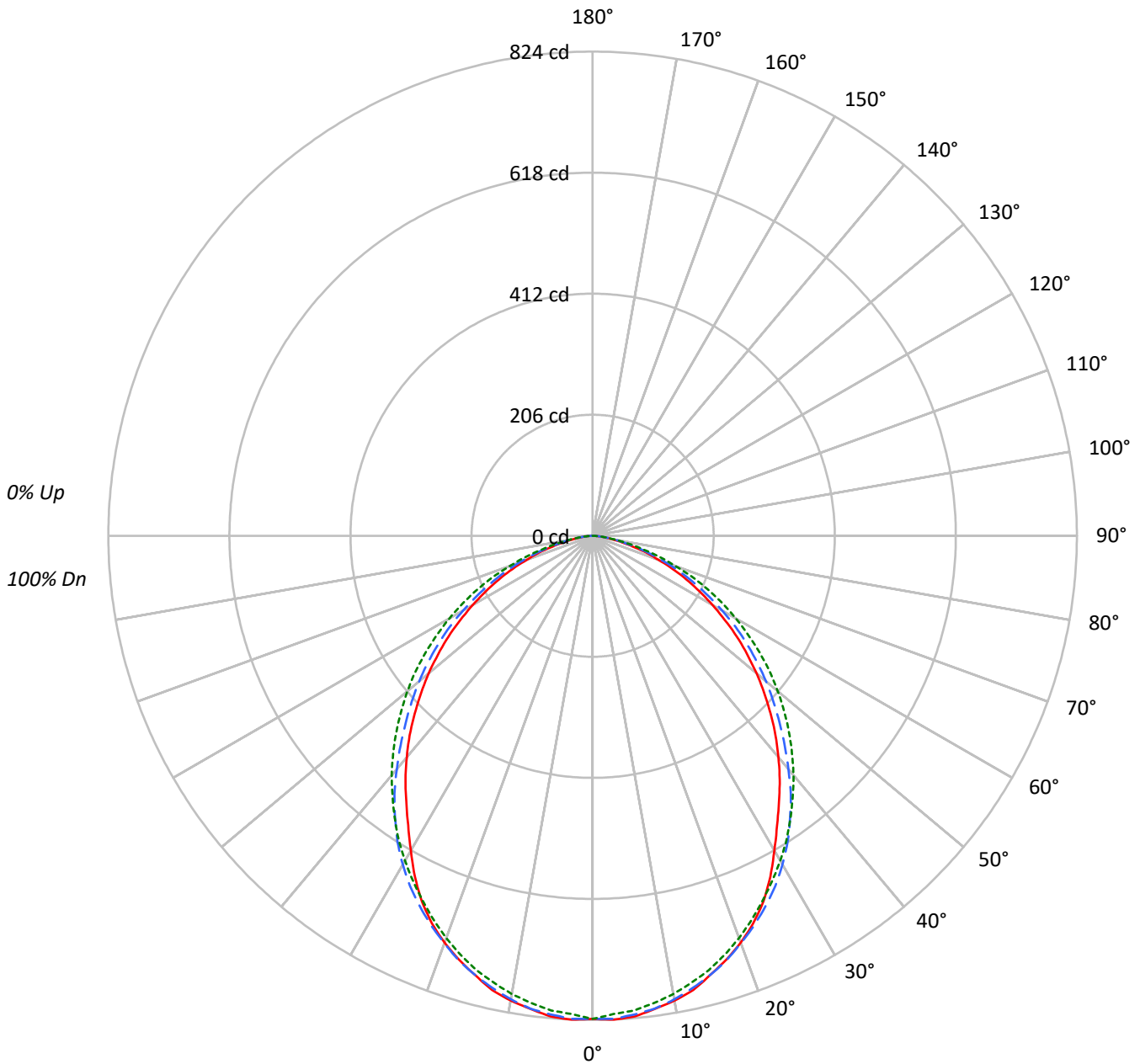
Lumens per Lamp: N/A
Luminaire Lumens: 1901.0 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4425	4425	4425
5°	4437	4418	4380
10°	4389	4377	4327
15°	4311	4311	4262
20°	4220	4226	4171
25°	4081	4132	4066
30°	3843	4016	3967
35°	3631	3849	3855
40°	3455	3641	3737
45°	3258	3420	3596
50°	3049	3224	3443
55°	2812	2999	3257
60°	2533	2737	3029
65°	2236	2434	2756
70°	1863	2072	2341
75°	1464	1655	1832
80°	1048	1165	1292
85°	685	685	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	4.1
10°-20°	217.5	11.4
20°-30°	317.8	16.7
30°-40°	360.7	19.0
40°-50°	348.2	18.3
50°-60°	287.2	15.1
60°-70°	191.3	10.1
70°-80°	85.6	4.5
80°-90°	15.3	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°	612.6	32.2
0°-40°	973.3	51.2
0°-60°	1608.8	84.6
0°-90°	1901.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1901.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	822	822	822	822	822	
5°	821	821	818	813	811	78
15°	774	776	774	770	765	218
25°	687	693	696	691	685	315
35°	553	560	586	589	587	346
45°	428	435	449	470	472	330
55°	300	305	320	337	347	268
65°	176	180	191	205	216	174
75°	70	74	80	83	88	77
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°	822.1	822.1	822.1	822.1	822.1
2.5°	824.3	824.7	822.8	817.7	814.6
5°	821.2	820.9	817.7	813.3	810.8
7.5°	812.0	812.7	811.7	805.4	801.9
10°	803.2	803.5	801.0	795.9	791.8
12.5°	791.8	791.5	788.0	785.5	778.9
15°	773.8	775.7	773.8	770.3	765.0
17.5°	756.4	756.4	757.7	751.7	747.6
20°	736.9	737.8	737.8	733.1	728.3
22.5°	714.1	717.0	717.9	712.9	707.2
25°	687.3	692.6	695.8	690.7	684.7
27.5°	654.7	662.9	672.4	668.6	662.0
30°	618.4	630.4	646.2	643.1	638.3
32.5°	584.0	596.0	617.8	616.5	614.0
35°	552.7	560.3	585.9	589.0	586.8
37.5°	523.0	530.0	554.0	561.2	559.4
40°	491.8	499.3	518.3	531.2	531.9
42.5°	460.8	468.1	483.6	502.2	502.2
45°	428.0	435.2	449.4	470.0	472.5
47.5°	395.7	403.3	417.2	437.8	441.9
50°	364.2	371.1	385.0	404.9	411.2
52.5°	331.3	338.9	352.5	370.8	380.0
55°	299.7	304.8	319.6	337.3	347.1
57.5°	266.9	271.6	288.4	303.5	313.6
60°	235.3	241.3	254.3	269.7	281.4
62.5°	205.0	211.3	222.4	235.9	249.2
65°	175.6	180.3	191.1	204.7	216.4
67.5°	147.2	151.3	162.0	171.5	183.8
70°	118.4	123.8	131.7	140.9	148.8
72.5°	95.4	97.6	104.2	110.9	119.1
75°	70.4	74.2	79.6	83.4	88.1
77.5°	50.5	52.7	55.9	59.1	63.5
80°	33.8	34.7	37.6	38.2	41.7
82.5°	20.5	21.2	21.8	22.1	23.4
85°	11.1	11.1	11.1	10.4	10.4
87.5°	6.3	6.3	5.4	4.4	3.2
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)