

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: P553905

Luminaire Tested: **FUSL-12-2-LD4-1HI-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: P553905
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-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

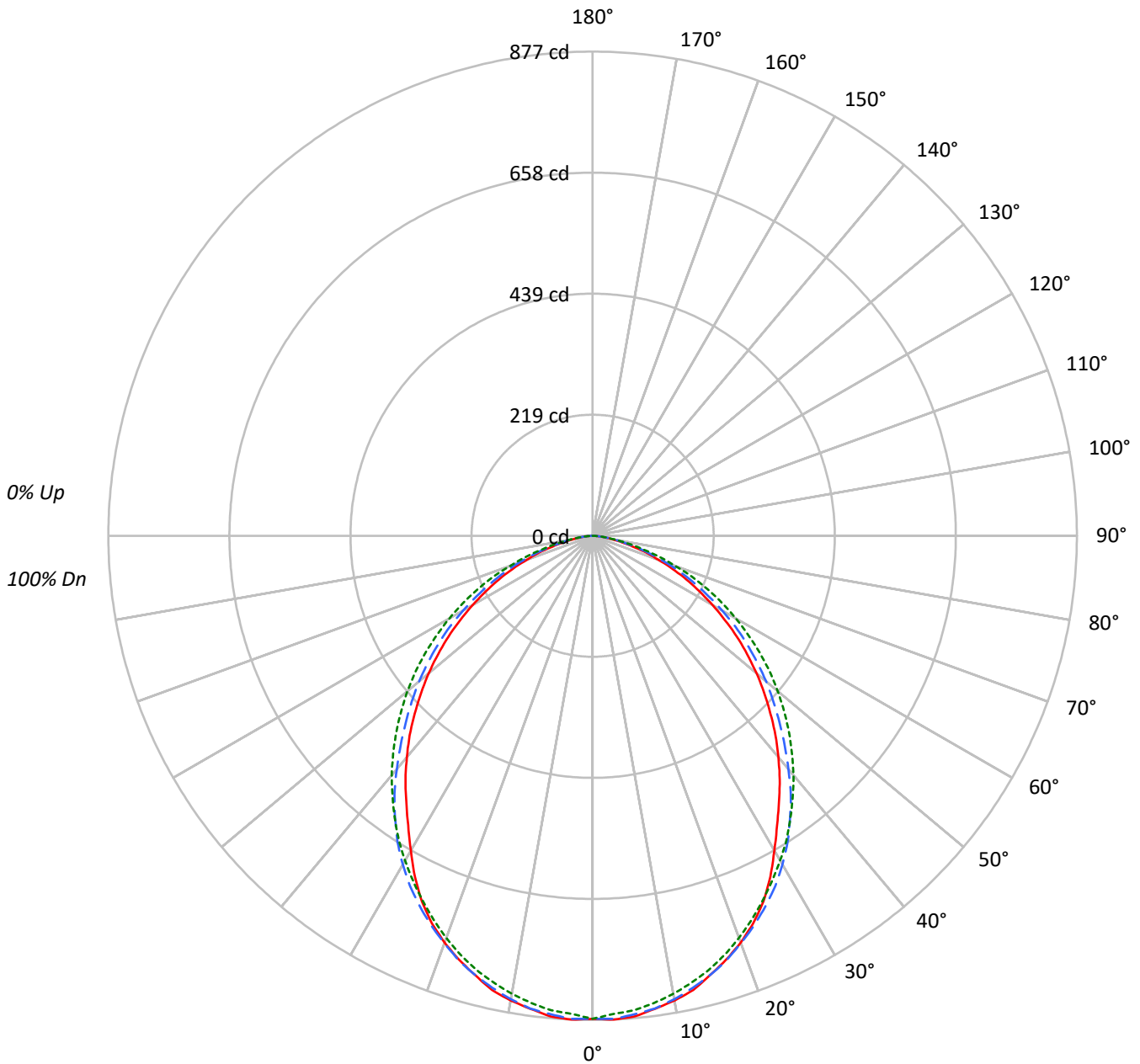
Lumens per Lamp: N/A
Luminaire Lumens: 2023.0 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4709	4709	4709
5°	4721	4701	4661
10°	4671	4658	4605
15°	4588	4588	4536
20°	4491	4497	4439
25°	4343	4397	4327
30°	4090	4274	4222
35°	3865	4096	4103
40°	3677	3875	3977
45°	3466	3640	3827
50°	3244	3430	3664
55°	2993	3191	3466
60°	2695	2913	3224
65°	2380	2589	2932
70°	1983	2206	2491
75°	1560	1761	1951
80°	1116	1240	1376
85°	729	729	685



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	4.1
10°-20°	231.4	11.4
20°-30°	338.2	16.7
30°-40°	383.9	19.0
40°-50°	370.5	18.3
50°-60°	305.7	15.1
60°-70°	203.6	10.1
70°-80°	91.1	4.5
80°-90°	16.3	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°	652.0	32.2
0°-40°	1035.8	51.2
0°-60°	1712.1	84.6
0°-90°	2023.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2023.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	875	875	875	875	875	
5°	874	874	870	866	863	83
15°	824	826	824	820	814	232
25°	731	737	740	735	729	335
35°	588	596	624	627	624	369
45°	455	463	478	500	503	351
55°	319	324	340	359	369	285
65°	187	192	203	218	230	185
75°	75	79	85	89	94	82
85°	12	12	12	11	11	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	874.9	874.9	874.9	874.9	874.9
2.5°	877.2	877.6	875.6	870.2	866.8
5°	873.9	873.6	870.2	865.5	862.8
7.5°	864.1	864.8	863.8	857.1	853.4
10°	854.7	855.1	852.4	847.0	842.6
12.5°	842.6	842.3	838.6	835.9	828.8
15°	823.5	825.5	823.5	819.8	814.1
17.5°	805.0	805.0	806.3	799.9	795.6
20°	784.1	785.2	785.2	780.1	775.1
22.5°	759.9	763.0	764.0	758.6	752.6
25°	731.4	737.1	740.5	735.1	728.7
27.5°	696.8	705.5	715.6	711.5	704.5
30°	658.1	670.9	687.7	684.3	679.3
32.5°	621.5	634.2	657.4	656.1	653.4
35°	588.2	596.3	623.5	626.8	624.5
37.5°	556.6	564.0	589.5	597.3	595.3
40°	523.3	531.4	551.6	565.3	566.0
42.5°	490.4	498.1	514.6	534.4	534.4
45°	455.4	463.2	478.3	500.1	502.8
47.5°	421.1	429.2	444.0	465.8	470.2
50°	387.5	394.9	409.7	430.9	437.6
52.5°	352.6	360.6	375.1	394.6	404.3
55°	319.0	324.3	340.1	359.0	369.4
57.5°	284.0	289.1	306.9	323.0	333.8
60°	250.4	256.8	270.6	287.0	299.5
62.5°	218.1	224.9	236.6	251.1	265.2
65°	186.9	191.9	203.3	217.8	230.2
67.5°	156.6	161.0	172.4	182.5	195.6
70°	126.0	131.8	140.2	149.9	158.3
72.5°	101.5	103.9	110.9	118.0	126.7
75°	75.0	79.0	84.7	88.7	93.8
77.5°	53.8	56.1	59.5	62.9	67.6
80°	36.0	37.0	40.0	40.7	44.4
82.5°	21.8	22.5	23.2	23.5	24.9
85°	11.8	11.8	11.8	11.1	11.1
87.5°	6.7	6.7	5.7	4.7	3.4
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)