

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: P553843

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-80-85-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: P553843
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-30-UNV-80-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

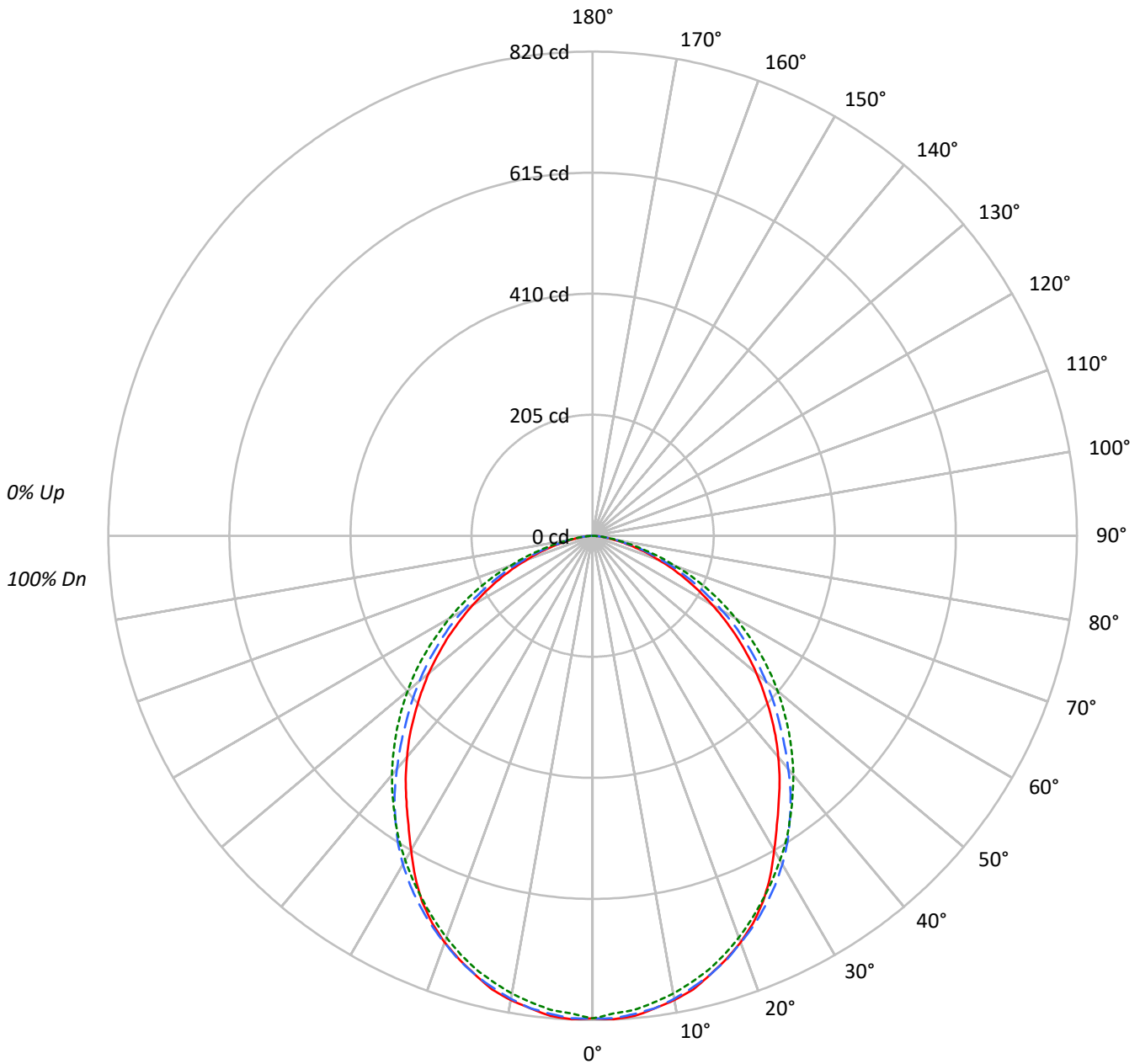
Lumens per Lamp: N/A
Luminaire Lumens: 1890.0 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (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									
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°	4399	4399	4399
5°	4411	4392	4355
10°	4364	4352	4302
15°	4286	4286	4237
20°	4196	4201	4147
25°	4058	4108	4043
30°	3821	3993	3944
35°	3610	3827	3833
40°	3435	3620	3715
45°	3239	3401	3576
50°	3032	3205	3423
55°	2796	2982	3238
60°	2518	2721	3012
65°	2223	2420	2739
70°	1854	2060	2327
75°	1456	1645	1822
80°	1041	1159	1283
85°	679	679	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	4.1
10°-20°	216.2	11.4
20°-30°	315.9	16.7
30°-40°	358.6	19.0
40°-50°	346.2	18.3
50°-60°	285.6	15.1
60°-70°	190.2	10.1
70°-80°	85.1	4.5
80°-90°	15.2	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°	609.1	32.2
0°-40°	967.7	51.2
0°-60°	1599.5	84.6
0°-90°	1890.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1890.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	816	816	813	809	806	77
15°	769	771	769	766	760	217
25°	683	689	692	687	681	313
35°	550	557	582	586	583	344
45°	426	433	447	467	470	328
55°	298	303	318	335	345	266
65°	175	179	190	204	215	173
75°	70	74	79	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°	817.4	817.4	817.4	817.4	817.4
2.5°	819.6	819.9	818.0	813.0	809.8
5°	816.4	816.1	813.0	808.6	806.1
7.5°	807.3	808.0	807.0	800.7	797.3
10°	798.5	798.8	796.3	791.3	787.2
12.5°	787.2	786.9	783.5	781.0	774.4
15°	769.3	771.2	769.3	765.9	760.5
17.5°	752.1	752.1	753.3	747.4	743.3
20°	732.6	733.5	733.5	728.8	724.1
22.5°	710.0	712.8	713.8	708.7	703.1
25°	683.3	688.6	691.8	686.7	680.8
27.5°	650.9	659.1	668.5	664.8	658.2
30°	614.8	626.8	642.5	639.3	634.6
32.5°	580.6	592.5	614.2	613.0	610.4
35°	549.5	557.1	582.5	585.6	583.4
37.5°	520.0	526.9	550.8	558.0	556.1
40°	488.9	496.5	515.3	528.2	528.8
42.5°	458.1	465.4	480.8	499.3	499.3
45°	425.5	432.7	446.8	467.3	469.8
47.5°	393.5	401.0	414.8	435.2	439.3
50°	362.1	369.0	382.8	402.6	408.8
52.5°	329.4	336.9	350.4	368.7	377.8
55°	298.0	303.0	317.8	335.4	345.1
57.5°	265.3	270.1	286.7	301.8	311.8
60°	233.9	239.9	252.8	268.2	279.8
62.5°	203.8	210.1	221.1	234.6	247.8
65°	174.6	179.3	190.0	203.5	215.1
67.5°	146.3	150.4	161.1	170.5	182.8
70°	117.8	123.1	130.9	140.0	147.9
72.5°	94.8	97.0	103.6	110.2	118.4
75°	70.0	73.8	79.1	82.9	87.6
77.5°	50.2	52.4	55.6	58.7	63.1
80°	33.6	34.5	37.4	38.0	41.4
82.5°	20.4	21.0	21.7	22.0	23.2
85°	11.0	11.0	11.0	10.4	10.4
87.5°	6.3	6.3	5.3	4.4	3.1
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)