

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: P553911

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-80-87-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: P553911
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-80-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC 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

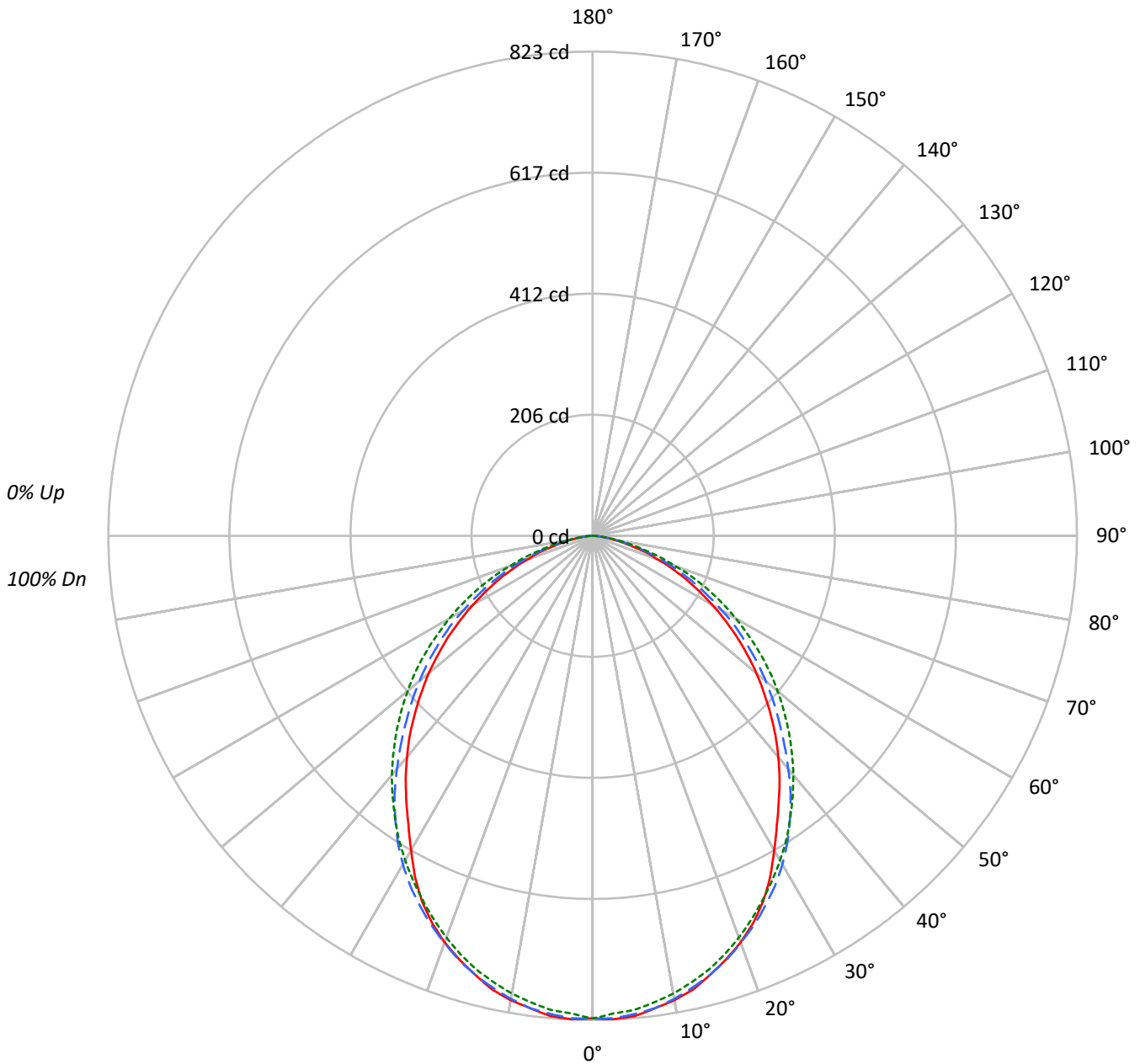
Lumens per Lamp: N/A
Luminaire Lumens: 1897.0 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4415	4415	4415
5°	4427	4408	4371
10°	4380	4368	4318
15°	4303	4303	4254
20°	4211	4217	4163
25°	4073	4123	4058
30°	3835	4008	3959
35°	3624	3842	3847
40°	3447	3634	3729
45°	3251	3414	3589
50°	3043	3217	3436
55°	2807	2993	3250
60°	2527	2731	3023
65°	2231	2429	2749
70°	1860	2068	2335
75°	1462	1651	1828
80°	1044	1162	1289
85°	679	679	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	4.1
10°-20°	217.0	11.4
20°-30°	317.1	16.7
30°-40°	360.0	19.0
40°-50°	347.5	18.3
50°-60°	286.7	15.1
60°-70°	190.9	10.1
70°-80°	85.4	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°	611.3	32.2
0°-40°	971.3	51.2
0°-60°	1605.4	84.6
0°-90°	1897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1897.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	820	820	820	820	820	
5°	820	819	816	812	809	78
15°	772	774	772	769	763	218
25°	686	691	694	689	683	314
35°	552	559	585	588	586	346
45°	427	434	448	469	472	329
55°	299	304	319	337	346	267
65°	175	180	191	204	216	174
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°	820.4	820.4	820.4	820.4	820.4
2.5°	822.6	822.9	821.0	816.0	812.8
5°	819.5	819.1	816.0	811.6	809.1
7.5°	810.3	810.9	810.0	803.7	800.2
10°	801.5	801.8	799.3	794.2	790.1
12.5°	790.1	789.8	786.4	783.8	777.2
15°	772.2	774.1	772.2	768.7	763.4
17.5°	754.8	754.8	756.1	750.1	746.0
20°	735.3	736.3	736.3	731.5	726.8
22.5°	712.6	715.4	716.4	711.4	705.7
25°	685.8	691.2	694.3	689.3	683.3
27.5°	653.4	661.6	671.0	667.2	660.6
30°	617.1	629.1	644.9	641.7	637.0
32.5°	582.8	594.7	616.5	615.2	612.7
35°	551.6	559.1	584.7	587.8	585.6
37.5°	521.9	528.9	552.8	560.1	558.2
40°	490.7	498.3	517.2	530.1	530.8
42.5°	459.8	467.1	482.5	501.1	501.1
45°	427.1	434.3	448.5	469.0	471.5
47.5°	394.9	402.5	416.3	436.8	440.9
50°	363.4	370.3	384.2	404.1	410.4
52.5°	330.6	338.2	351.7	370.0	379.2
55°	299.1	304.1	319.0	336.6	346.4
57.5°	266.3	271.1	287.8	302.9	313.0
60°	234.8	240.8	253.7	269.2	280.8
62.5°	204.5	210.9	221.9	235.4	248.7
65°	175.2	180.0	190.7	204.2	215.9
67.5°	146.9	151.0	161.7	171.1	183.4
70°	118.2	123.5	131.4	140.6	148.4
72.5°	95.2	97.4	104.0	110.6	118.8
75°	70.3	74.1	79.4	83.2	87.9
77.5°	50.4	52.6	55.8	58.9	63.4
80°	33.7	34.7	37.5	38.1	41.6
82.5°	20.5	21.1	21.7	22.1	23.3
85°	11.0	11.0	11.0	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)