

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: P553901

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-93-96-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: P553901
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-93-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

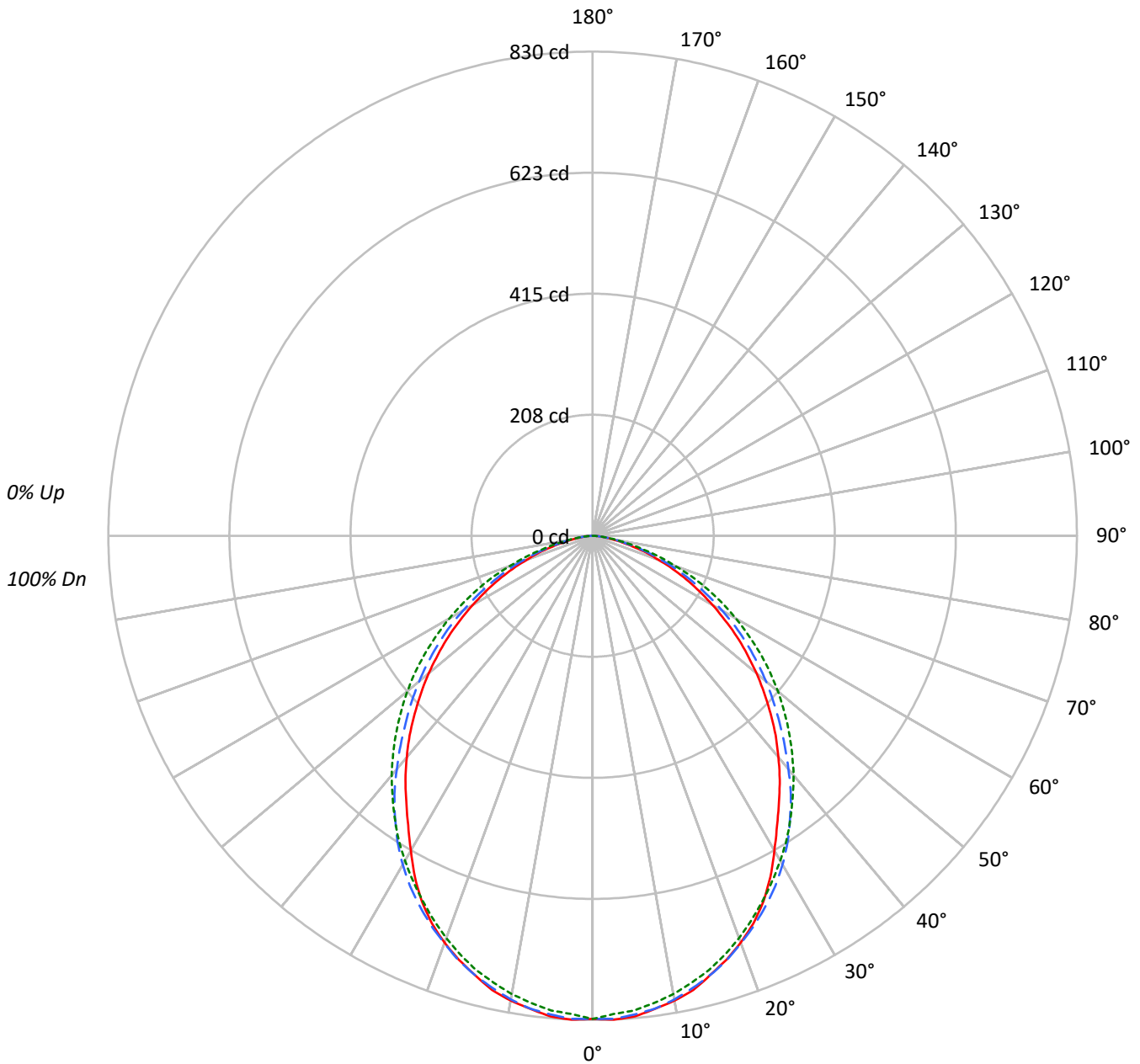
Lumens per Lamp: N/A
Luminaire Lumens: 1915.0 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4457	4457	4457
5°	4469	4450	4412
10°	4422	4410	4359
15°	4343	4343	4294
20°	4251	4257	4202
25°	4111	4162	4096
30°	3872	4046	3996
35°	3658	3878	3884
40°	3481	3668	3764
45°	3281	3446	3623
50°	3071	3247	3469
55°	2833	3021	3281
60°	2551	2757	3052
65°	2253	2451	2775
70°	1877	2088	2359
75°	1476	1668	1847
80°	1054	1175	1302
85°	685	685	648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	4.1
10°-20°	219.1	11.4
20°-30°	320.1	16.7
30°-40°	363.4	19.0
40°-50°	350.8	18.3
50°-60°	289.4	15.1
60°-70°	192.7	10.1
70°-80°	86.2	4.5
80°-90°	15.4	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°	617.1	32.2
0°-40°	980.5	51.2
0°-60°	1620.7	84.6
0°-90°	1915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1915.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	828	828	828	828	828	
5°	827	827	824	819	817	78
15°	780	781	780	776	771	220
25°	692	698	701	696	690	317
35°	557	564	590	593	591	349
45°	431	438	453	473	476	333
55°	302	307	322	340	350	269
65°	177	182	192	206	218	175
75°	71	75	80	84	89	78
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°	828.2	828.2	828.2	828.2	828.2
2.5°	830.4	830.7	828.8	823.7	820.6
5°	827.2	826.9	823.7	819.3	816.7
7.5°	818.0	818.6	817.7	811.3	807.8
10°	809.1	809.4	806.9	801.8	797.6
12.5°	797.6	797.3	793.8	791.3	784.6
15°	779.5	781.4	779.5	776.0	770.6
17.5°	762.0	762.0	763.3	757.2	753.1
20°	742.3	743.2	743.2	738.5	733.7
22.5°	719.4	722.2	723.2	718.1	712.4
25°	692.3	697.7	700.9	695.8	689.8
27.5°	659.6	667.8	677.4	673.6	666.9
30°	623.0	635.1	651.0	647.8	643.0
32.5°	588.3	600.4	622.3	621.1	618.5
35°	556.8	564.4	590.2	593.4	591.2
37.5°	526.9	533.9	558.1	565.4	563.5
40°	495.4	503.0	522.1	535.2	535.8
42.5°	464.2	471.5	487.1	505.9	505.9
45°	431.1	438.4	452.8	473.4	476.0
47.5°	398.7	406.3	420.3	441.0	445.1
50°	366.8	373.8	387.8	407.9	414.3
52.5°	333.8	341.4	355.1	373.5	382.8
55°	301.9	307.0	322.0	339.8	349.7
57.5°	268.9	273.6	290.5	305.8	315.9
60°	237.0	243.1	256.1	271.7	283.5
62.5°	206.5	212.9	224.0	237.7	251.0
65°	176.9	181.7	192.5	206.2	217.9
67.5°	148.3	152.4	163.2	172.8	185.2
70°	119.3	124.7	132.7	141.9	149.9
72.5°	96.1	98.3	105.0	111.7	119.9
75°	71.0	74.8	80.2	84.0	88.8
77.5°	50.9	53.1	56.3	59.5	64.0
80°	34.0	35.0	37.9	38.5	42.0
82.5°	20.7	21.3	22.0	22.3	23.5
85°	11.1	11.1	11.1	10.5	10.5
87.5°	6.4	6.4	5.4	4.5	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)