

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: P553931

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-81-94-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: P553931
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-81-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

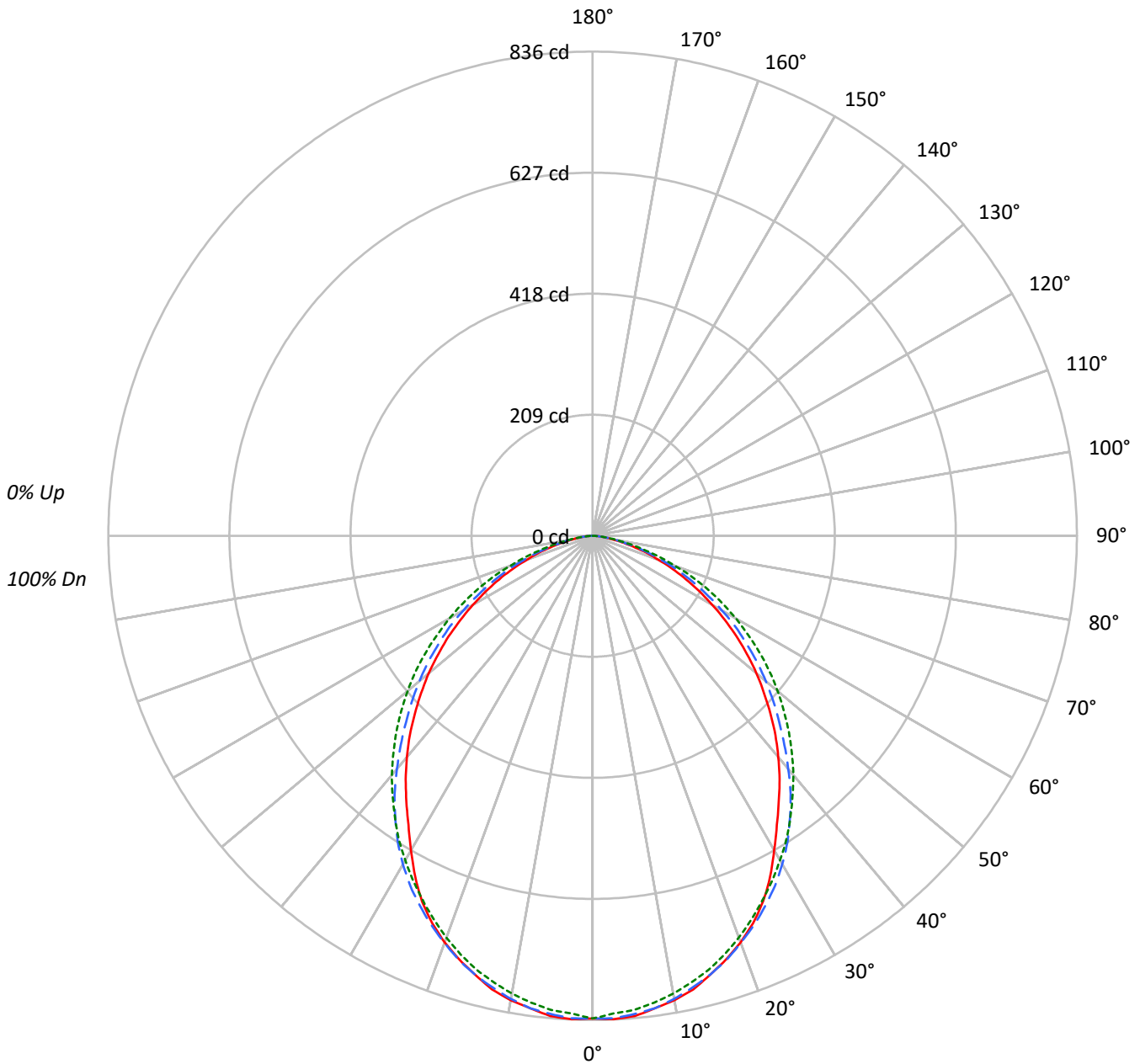
Lumens per Lamp: N/A
Luminaire Lumens: 1927.0 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4485	4485	4485
5°	4497	4478	4440
10°	4450	4437	4386
15°	4371	4371	4320
20°	4278	4283	4229
25°	4137	4188	4122
30°	3896	4071	4021
35°	3681	3902	3909
40°	3502	3691	3788
45°	3302	3468	3646
50°	3090	3268	3490
55°	2851	3040	3302
60°	2567	2774	3071
65°	2267	2467	2793
70°	1890	2101	2373
75°	1485	1678	1857
80°	1063	1181	1311
85°	692	692	655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	4.1
10°-20°	220.4	11.4
20°-30°	322.1	16.7
30°-40°	365.6	19.0
40°-50°	353.0	18.3
50°-60°	291.2	15.1
60°-70°	193.9	10.1
70°-80°	86.8	4.5
80°-90°	15.5	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°	621.0	32.2
0°-40°	986.7	51.2
0°-60°	1630.8	84.6
0°-90°	1927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1927.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	833	833	833	833	833	
5°	832	832	829	824	822	79
15°	784	786	784	781	775	221
25°	697	702	705	700	694	319
35°	560	568	594	597	595	351
45°	434	441	456	476	479	335
55°	304	309	324	342	352	271
65°	178	183	194	208	219	177
75°	71	75	81	84	89	78
85°	11	11	11	11	11	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	833.4	833.4	833.4	833.4	833.4
2.5°	835.6	835.9	834.0	828.9	825.7
5°	832.4	832.1	828.9	824.4	821.9
7.5°	823.1	823.8	822.8	816.4	812.9
10°	814.2	814.5	811.9	806.8	802.6
12.5°	802.6	802.3	798.8	796.2	789.5
15°	784.4	786.3	784.4	780.9	775.4
17.5°	766.8	766.8	768.1	762.0	757.8
20°	746.9	747.9	747.9	743.1	738.3
22.5°	723.9	726.8	727.7	722.6	716.8
25°	696.7	702.1	705.3	700.2	694.1
27.5°	663.7	672.0	681.6	677.8	671.1
30°	626.9	639.0	655.0	651.8	647.0
32.5°	592.0	604.1	626.2	625.0	622.4
35°	560.3	568.0	593.9	597.1	594.9
37.5°	530.2	537.2	561.6	568.9	567.0
40°	498.5	506.2	525.4	538.5	539.2
42.5°	467.1	474.5	490.2	509.1	509.1
45°	433.8	441.2	455.6	476.4	479.0
47.5°	401.2	408.8	422.9	443.7	447.9
50°	369.1	376.2	390.3	410.4	416.8
52.5°	335.8	343.5	357.3	375.9	385.2
55°	303.8	309.0	324.0	341.9	351.9
57.5°	270.5	275.3	292.3	307.7	317.9
60°	238.5	244.6	257.7	273.4	285.3
62.5°	207.8	214.2	225.4	239.2	252.6
65°	178.0	182.8	193.7	207.5	219.3
67.5°	149.2	153.4	164.2	173.8	186.3
70°	120.1	125.5	133.5	142.8	150.8
72.5°	96.7	98.9	105.7	112.4	120.7
75°	71.4	75.2	80.7	84.5	89.3
77.5°	51.2	53.5	56.7	59.9	64.4
80°	34.3	35.2	38.1	38.7	42.3
82.5°	20.8	21.5	22.1	22.4	23.7
85°	11.2	11.2	11.2	10.6	10.6
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)