

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: P553883

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-82-94-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: P553883
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-82-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

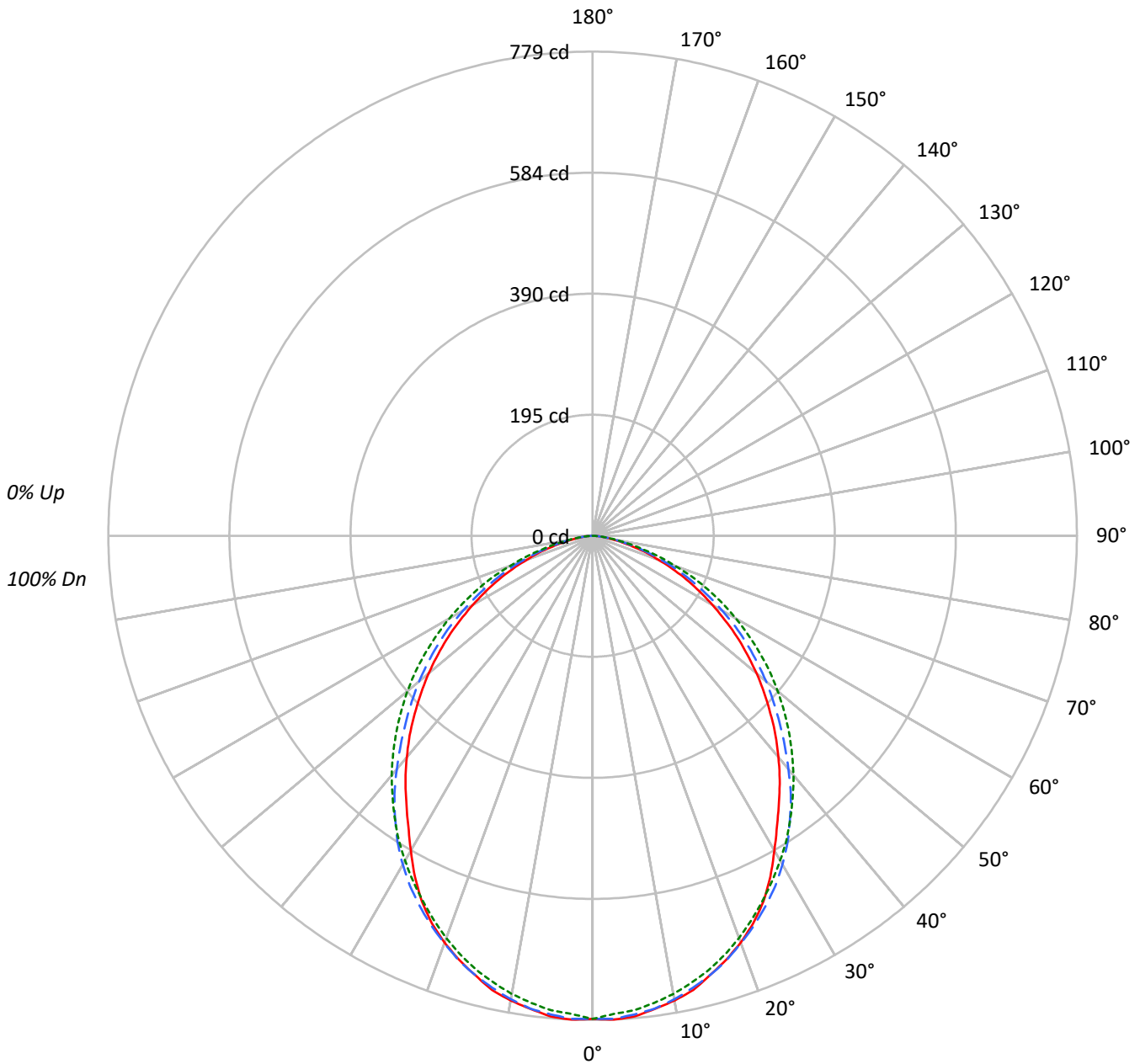
Lumens per Lamp: N/A
Luminaire Lumens: 1797.0 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P553883

CATALOG NUMBER: FUSL-12-2-LD4-1HI-30-UNV-82-94-EDD

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°	4183	4183	4183
5°	4194	4176	4140
10°	4149	4138	4091
15°	4076	4076	4029
20°	3989	3994	3943
25°	3858	3906	3844
30°	3633	3796	3750
35°	3433	3639	3644
40°	3266	3442	3532
45°	3080	3234	3399
50°	2882	3047	3255
55°	2658	2835	3079
60°	2394	2587	2863
65°	2114	2300	2604
70°	1762	1959	2212
75°	1385	1564	1732
80°	989	1100	1221
85°	642	642	611



TEST NUMBER: P553883

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	4.1
10°-20°	205.6	11.4
20°-30°	300.4	16.7
30°-40°	341.0	19.0
40°-50°	329.2	18.3
50°-60°	271.5	15.1
60°-70°	180.8	10.1
70°-80°	80.9	4.5
80°-90°	14.5	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°	579.1	32.2
0°-40°	920.1	51.2
0°-60°	1520.8	84.6
0°-90°	1797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1797.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	777	777	777	777	777	
5°	776	776	773	769	766	73
15°	732	733	732	728	723	206
25°	650	655	658	653	647	298
35°	522	530	554	557	555	327
45°	405	411	425	444	447	312
55°	283	288	302	319	328	253
65°	166	170	181	194	204	165
75°	67	70	75	79	83	73
85°	10	10	10	10	10	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	777.2	777.2	777.2	777.2	777.2
2.5°	779.2	779.5	777.8	773.0	770.0
5°	776.3	776.0	773.0	768.8	766.4
7.5°	767.6	768.2	767.3	761.3	758.0
10°	759.2	759.5	757.2	752.4	748.5
12.5°	748.5	748.2	744.9	742.5	736.3
15°	731.5	733.3	731.5	728.2	723.1
17.5°	715.1	715.1	716.2	710.6	706.7
20°	696.5	697.4	697.4	693.0	688.5
22.5°	675.0	677.7	678.6	673.9	668.5
25°	649.7	654.7	657.7	653.0	647.3
27.5°	618.9	626.7	635.6	632.1	625.8
30°	584.6	595.9	610.9	607.9	603.4
32.5°	552.0	563.4	584.0	582.8	580.4
35°	522.5	529.6	553.8	556.8	554.7
37.5°	494.4	501.0	523.7	530.5	528.8
40°	464.9	472.0	489.9	502.2	502.8
42.5°	435.6	442.5	457.1	474.7	474.7
45°	404.6	411.4	424.9	444.3	446.6
47.5°	374.1	381.3	394.4	413.8	417.7
50°	344.2	350.8	363.9	382.8	388.7
52.5°	313.2	320.4	333.2	350.5	359.2
55°	283.3	288.1	302.1	318.9	328.1
57.5°	252.3	256.8	272.6	286.9	296.5
60°	222.4	228.1	240.3	255.0	266.0
62.5°	193.8	199.7	210.2	223.0	235.6
65°	166.0	170.5	180.6	193.5	204.5
67.5°	139.1	143.0	153.2	162.1	173.8
70°	112.0	117.0	124.5	133.2	140.6
72.5°	90.2	92.3	98.5	104.8	112.6
75°	66.6	70.2	75.2	78.8	83.3
77.5°	47.8	49.9	52.8	55.8	60.0
80°	31.9	32.8	35.5	36.1	39.4
82.5°	19.4	20.0	20.6	20.9	22.1
85°	10.4	10.4	10.4	9.9	9.9
87.5°	6.0	6.0	5.1	4.2	3.0
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)