

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: P553873

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-82-84-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: P553873
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-82-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

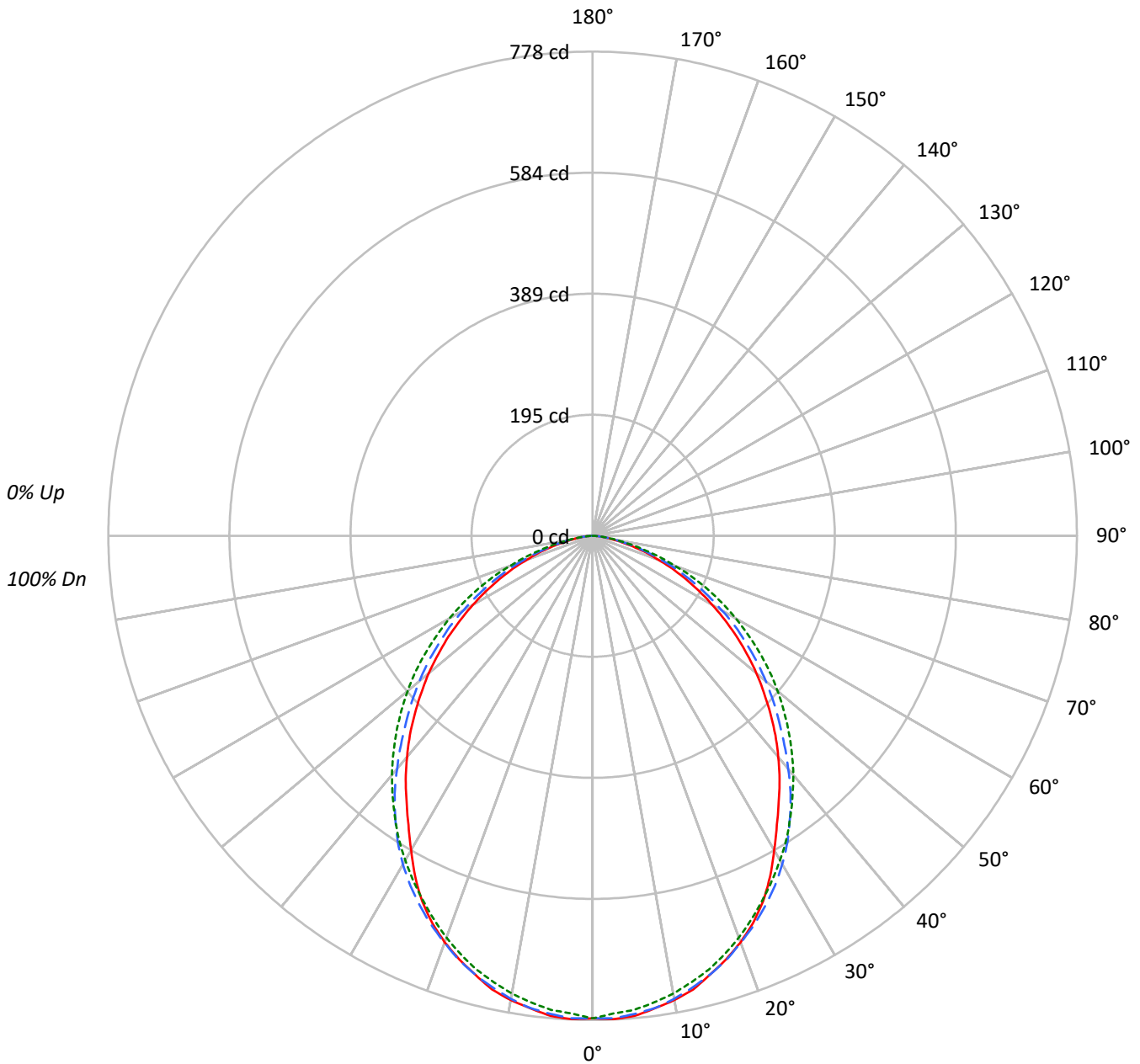
Lumens per Lamp: N/A
Luminaire Lumens: 1793.0 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4173	4173	4173
5°	4184	4167	4131
10°	4140	4129	4081
15°	4066	4066	4020
20°	3981	3986	3935
25°	3849	3897	3835
30°	3625	3788	3742
35°	3425	3631	3637
40°	3258	3434	3525
45°	3073	3226	3392
50°	2876	3040	3248
55°	2653	2829	3072
60°	2389	2581	2857
65°	2109	2295	2599
70°	1758	1954	2208
75°	1381	1562	1728
80°	989	1097	1218
85°	642	642	605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	4.1
10°-20°	205.1	11.4
20°-30°	299.7	16.7
30°-40°	340.2	19.0
40°-50°	328.4	18.3
50°-60°	270.9	15.1
60°-70°	180.4	10.1
70°-80°	80.7	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°	577.8	32.2
0°-40°	918.1	51.2
0°-60°	1517.4	84.6
0°-90°	1793.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1793.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	774	774	771	767	765	73
15°	730	732	730	727	722	206
25°	648	653	656	652	646	297
35°	521	528	553	556	554	327
45°	404	410	424	443	446	311
55°	283	288	302	318	327	252
65°	166	170	180	193	204	164
75°	66	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°	775.4	775.4	775.4	775.4	775.4
2.5°	777.5	777.8	776.0	771.3	768.3
5°	774.5	774.2	771.3	767.1	764.7
7.5°	765.9	766.5	765.6	759.6	756.4
10°	757.6	757.9	755.5	750.7	746.8
12.5°	746.8	746.5	743.3	740.9	734.6
15°	729.8	731.6	729.8	726.6	721.5
17.5°	713.5	713.5	714.7	709.0	705.1
20°	695.0	695.9	695.9	691.4	687.0
22.5°	673.5	676.2	677.1	672.4	667.0
25°	648.2	653.3	656.3	651.5	645.8
27.5°	617.5	625.3	634.2	630.6	624.4
30°	583.3	594.6	609.5	606.5	602.1
32.5°	550.8	562.1	582.7	581.5	579.1
35°	521.3	528.5	552.6	555.6	553.5
37.5°	493.3	499.9	522.5	529.4	527.6
40°	463.8	471.0	488.8	501.1	501.7
42.5°	434.6	441.5	456.1	473.7	473.7
45°	403.7	410.5	423.9	443.3	445.7
47.5°	373.3	380.4	393.5	412.9	416.8
50°	343.5	350.0	363.1	381.9	387.9
52.5°	312.5	319.6	332.5	349.7	358.4
55°	282.7	287.5	301.5	318.2	327.4
57.5°	251.7	256.2	272.0	286.3	295.8
60°	221.9	227.6	239.8	254.4	265.4
62.5°	193.3	199.3	209.7	222.5	235.0
65°	165.6	170.1	180.2	193.0	204.1
67.5°	138.8	142.7	152.8	161.8	173.4
70°	111.7	116.8	124.2	132.9	140.3
72.5°	90.0	92.1	98.3	104.6	112.3
75°	66.4	70.0	75.1	78.6	83.1
77.5°	47.7	49.7	52.7	55.7	59.9
80°	31.9	32.8	35.4	36.0	39.3
82.5°	19.4	20.0	20.6	20.9	22.0
85°	10.4	10.4	10.4	9.8	9.8
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)