

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: P554871

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-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: P554871
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-LD4-2LO-30-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 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

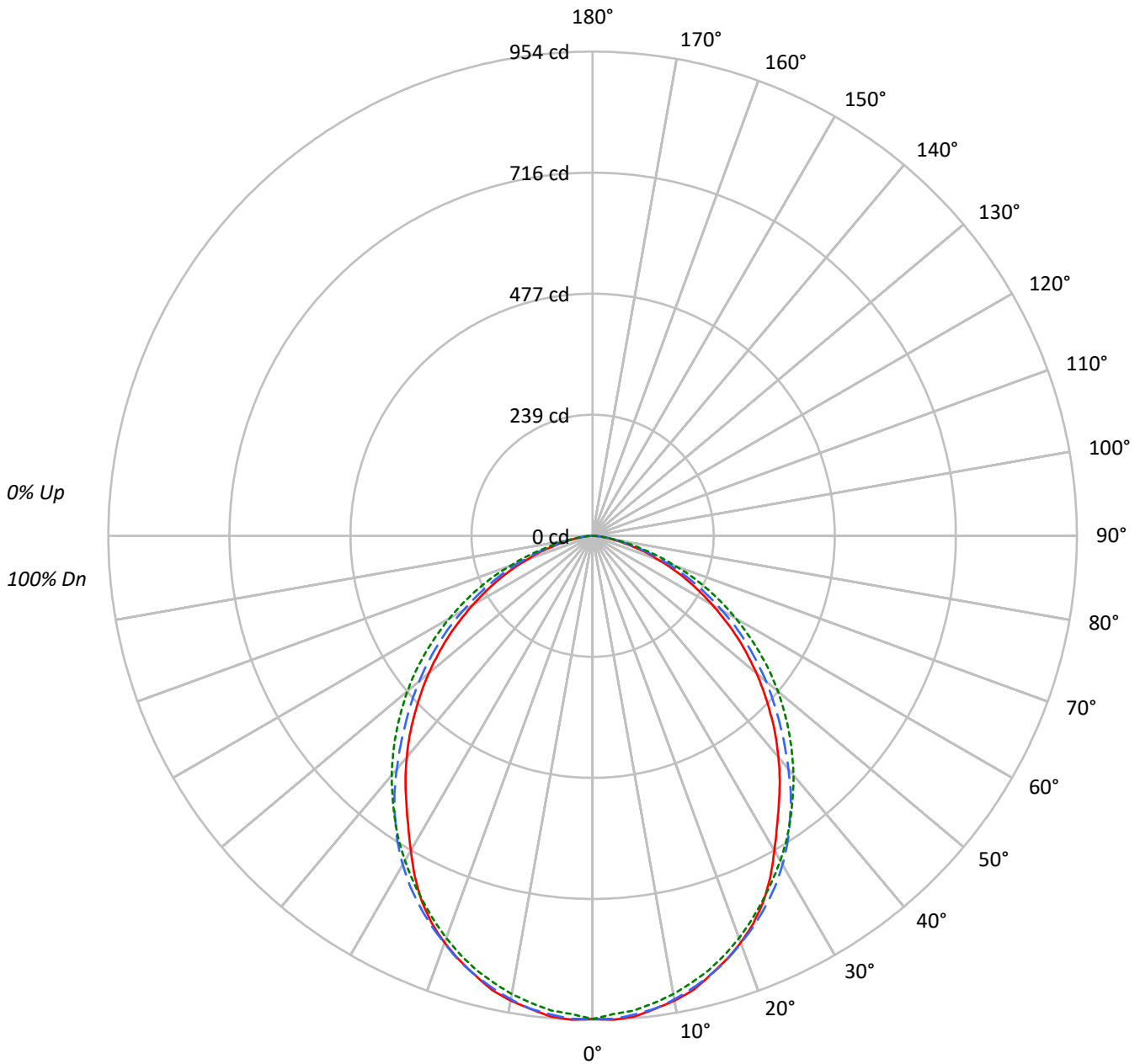
Lumens per Lamp: N/A
Luminaire Lumens: 2201.0 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	5123	5123	5123
5°	5137	5115	5071
10°	5082	5068	5010
15°	4992	4992	4935
20°	4886	4892	4830
25°	4725	4784	4708
30°	4450	4650	4593
35°	4204	4457	4464
40°	4000	4216	4326
45°	3771	3961	4164
50°	3530	3733	3986
55°	3256	3473	3771
60°	2932	3169	3507
65°	2589	2817	3190
70°	2157	2400	2710
75°	1695	1917	2121
80°	1212	1348	1497
85°	790	790	747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	4.1
10°-20°	251.8	11.4
20°-30°	367.9	16.7
30°-40°	417.6	19.0
40°-50°	403.2	18.3
50°-60°	332.6	15.1
60°-70°	221.5	10.1
70°-80°	99.1	4.5
80°-90°	17.7	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°	709.3	32.2
0°-40°	1126.9	51.2
0°-60°	1862.7	84.6
0°-90°	2201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2201.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	951	950	947	942	939	90
15°	896	898	896	892	886	253
25°	796	802	806	800	793	364
35°	640	649	678	682	679	401
45°	496	504	520	544	547	382
55°	347	353	370	391	402	310
65°	203	209	221	237	250	202
75°	82	86	92	96	102	89
85°	13	13	13	12	12	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	951.9	951.9	951.9	951.9	951.9
2.5°	954.4	954.8	952.6	946.8	943.1
5°	950.8	950.4	946.8	941.6	938.7
7.5°	940.2	940.9	939.8	932.5	928.5
10°	929.9	930.3	927.4	921.5	916.8
12.5°	916.8	916.4	912.4	909.5	901.8
15°	895.9	898.1	895.9	891.9	885.7
17.5°	875.8	875.8	877.3	870.3	865.6
20°	853.1	854.2	854.2	848.8	843.3
22.5°	826.8	830.1	831.2	825.3	818.8
25°	795.7	801.9	805.6	799.8	792.8
27.5°	758.1	767.6	778.5	774.2	766.5
30°	716.0	729.9	748.2	744.5	739.0
32.5°	676.1	690.0	715.3	713.8	710.9
35°	639.9	648.7	678.3	682.0	679.4
37.5°	605.6	613.6	641.4	649.8	647.6
40°	569.4	578.1	600.1	615.1	615.8
42.5°	533.5	541.9	559.9	581.4	581.4
45°	495.5	503.9	520.4	544.1	547.1
47.5°	458.2	467.0	483.1	506.8	511.6
50°	421.6	429.7	445.8	468.8	476.1
52.5°	383.6	392.4	408.1	429.3	439.9
55°	347.0	352.9	370.1	390.6	401.9
57.5°	309.0	314.5	333.9	351.4	363.1
60°	272.4	279.4	294.4	312.3	325.8
62.5°	237.3	244.6	257.4	273.2	288.5
65°	203.3	208.8	221.2	237.0	250.5
67.5°	170.4	175.2	187.6	198.6	212.8
70°	137.1	143.3	152.5	163.1	172.2
72.5°	110.4	113.0	120.7	128.4	137.9
75°	81.5	85.9	92.2	96.5	102.0
77.5°	58.5	61.1	64.7	68.4	73.5
80°	39.1	40.2	43.5	44.2	48.3
82.5°	23.8	24.5	25.2	25.6	27.1
85°	12.8	12.8	12.8	12.1	12.1
87.5°	7.3	7.3	6.2	5.1	3.7
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)