

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: P554045

Luminaire Tested: **FUSL-12-2-LD4-1HI-50-UNV-80-96-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: P554045
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-50-UNV-80-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

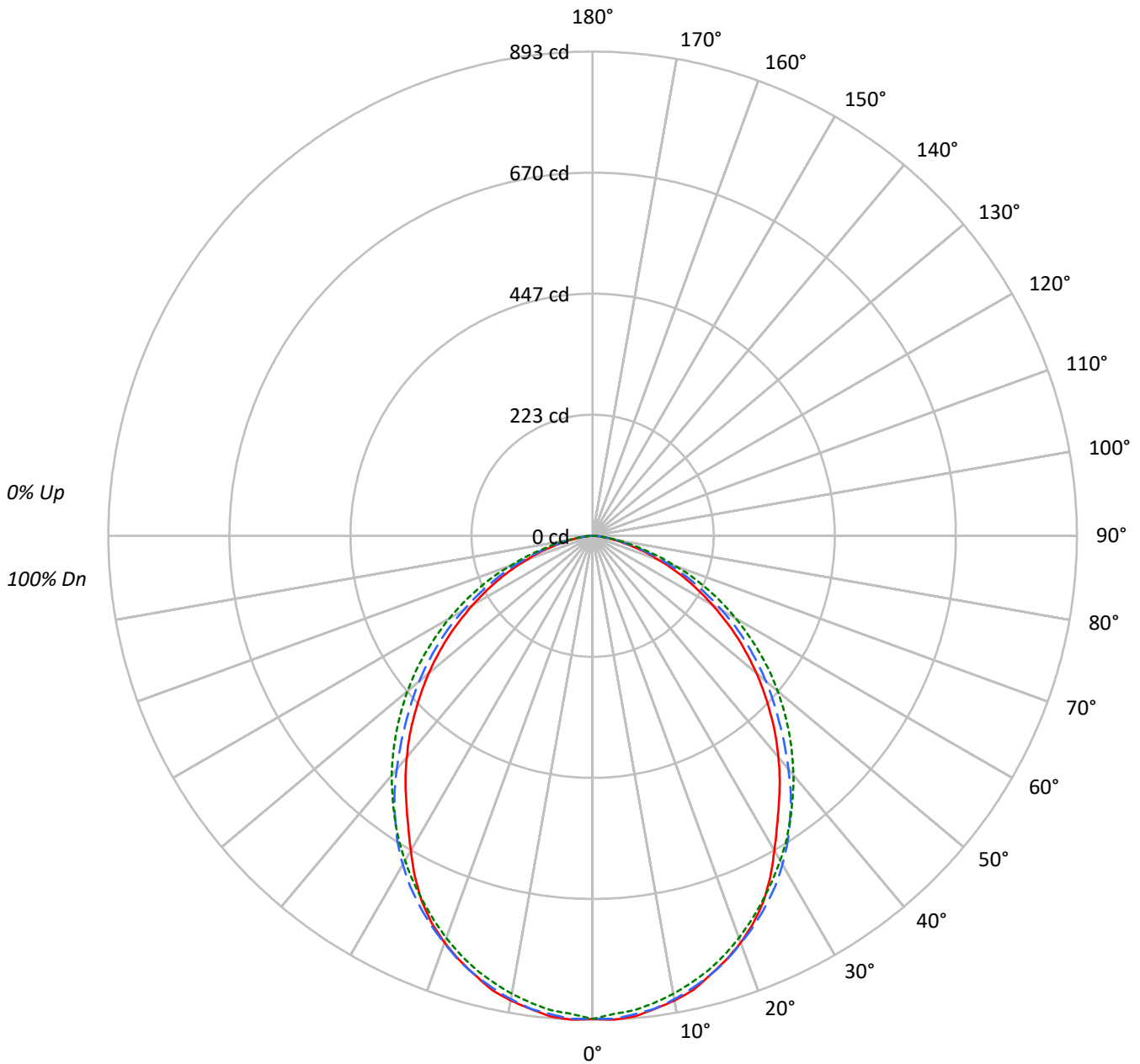
Lumens per Lamp: N/A
Luminaire Lumens: 2060.0 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P554045

CATALOG NUMBER: FUSL-12-2-LD4-1HI-50-UNV-80-96-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°	4795	4795	4795
5°	4808	4787	4747
10°	4757	4744	4689
15°	4672	4672	4618
20°	4573	4579	4520
25°	4423	4478	4406
30°	4164	4352	4299
35°	3936	4171	4178
40°	3744	3946	4050
45°	3530	3707	3897
50°	3304	3493	3731
55°	3048	3250	3529
60°	2745	2965	3283
65°	2423	2637	2985
70°	2019	2245	2537
75°	1587	1792	1986
80°	1134	1261	1401
85°	741	741	698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	4.1
10°-20°	235.6	11.4
20°-30°	344.4	16.7
30°-40°	390.9	19.0
40°-50°	377.3	18.3
50°-60°	311.3	15.1
60°-70°	207.3	10.1
70°-80°	92.8	4.5
80°-90°	16.6	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°	663.9	32.2
0°-40°	1054.8	51.2
0°-60°	1743.4	84.6
0°-90°	2060.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2060.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	891	891	891	891	891	
5°	890	890	886	881	879	84
15°	838	841	838	835	829	236
25°	745	751	754	748	742	341
35°	599	607	635	638	636	375
45°	464	472	487	509	512	358
55°	325	330	346	366	376	290
65°	190	195	207	222	234	189
75°	76	80	86	90	96	83
85°	12	12	12	11	11	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	890.9	890.9	890.9	890.9	890.9
2.5°	893.3	893.6	891.6	886.1	882.7
5°	889.9	889.5	886.1	881.3	878.6
7.5°	879.9	880.6	879.6	872.8	869.0
10°	870.4	870.7	868.0	862.5	858.0
12.5°	858.0	857.7	853.9	851.2	844.0
15°	838.5	840.6	838.5	834.8	828.9
17.5°	819.7	819.7	821.1	814.6	810.1
20°	798.5	799.5	799.5	794.4	789.2
22.5°	773.8	776.9	778.0	772.5	766.3
25°	744.8	750.6	754.0	748.5	742.0
27.5°	709.5	718.4	728.7	724.6	717.4
30°	670.1	683.1	700.3	696.8	691.7
32.5°	632.8	645.8	669.5	668.1	665.3
35°	599.0	607.2	634.9	638.3	635.9
37.5°	566.8	574.3	600.3	608.2	606.1
40°	532.9	541.1	561.6	575.7	576.4
42.5°	499.4	507.2	524.0	544.2	544.2
45°	463.8	471.6	487.0	509.3	512.0
47.5°	428.8	437.1	452.1	474.4	478.8
50°	394.6	402.2	417.2	438.8	445.6
52.5°	359.0	367.2	382.0	401.8	411.7
55°	324.8	330.3	346.4	365.5	376.1
57.5°	289.2	294.3	312.5	328.9	339.9
60°	255.0	261.5	275.5	292.3	305.0
62.5°	222.1	229.0	240.9	255.7	270.0
65°	190.3	195.4	207.1	221.8	234.4
67.5°	159.5	163.9	175.6	185.8	199.2
70°	128.3	134.2	142.7	152.6	161.2
72.5°	103.4	105.8	112.9	120.1	129.0
75°	76.3	80.4	86.2	90.4	95.5
77.5°	54.8	57.2	60.6	64.0	68.8
80°	36.6	37.6	40.7	41.4	45.2
82.5°	22.2	22.9	23.6	24.0	25.3
85°	12.0	12.0	12.0	11.3	11.3
87.5°	6.8	6.8	5.8	4.8	3.4
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)