

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: P554041

Luminaire Tested: **FUSL-12-2-LD4-1HI-50-UNV-80-88-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: P554041
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-80-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

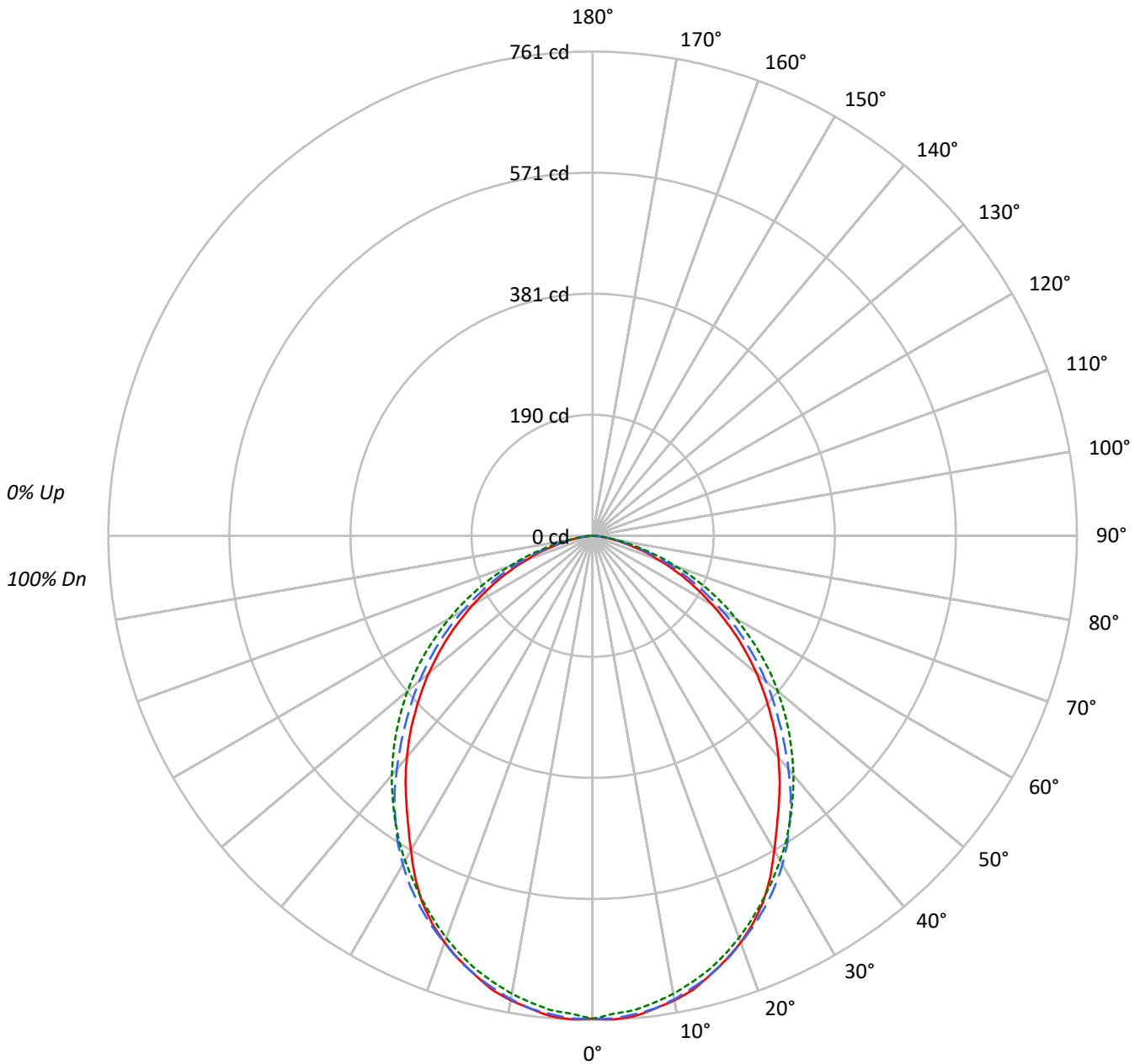
Lumens per Lamp: N/A
Luminaire Lumens: 1755.0 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	4085	4085	4085
5°	4096	4078	4044
10°	4052	4041	3995
15°	3981	3981	3935
20°	3896	3901	3851
25°	3768	3815	3754
30°	3548	3708	3662
35°	3353	3554	3560
40°	3190	3362	3450
45°	3007	3158	3320
50°	2815	2976	3178
55°	2596	2769	3007
60°	2338	2526	2796
65°	2064	2246	2543
70°	1720	1913	2161
75°	1352	1528	1693
80°	967	1075	1193
85°	630	630	593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	4.1
10°-20°	200.8	11.4
20°-30°	293.4	16.7
30°-40°	333.0	19.0
40°-50°	321.5	18.3
50°-60°	265.2	15.1
60°-70°	176.6	10.1
70°-80°	79.0	4.5
80°-90°	14.1	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°	565.6	32.2
0°-40°	898.6	51.2
0°-60°	1485.2	84.6
0°-90°	1755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1755.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	759	759	759	759	759	
5°	758	758	755	751	748	72
15°	714	716	714	711	706	201
25°	634	639	642	638	632	291
35°	510	517	541	544	542	320
45°	395	402	415	434	436	305
55°	277	281	295	311	320	247
65°	162	166	176	189	200	161
75°	65	68	74	77	81	71
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°	759.0	759.0	759.0	759.0	759.0
2.5°	761.0	761.3	759.6	754.9	752.0
5°	758.1	757.8	754.9	750.8	748.5
7.5°	749.7	750.2	749.4	743.5	740.3
10°	741.5	741.8	739.5	734.8	731.0
12.5°	731.0	730.7	727.5	725.2	719.0
15°	714.4	716.1	714.4	711.2	706.2
17.5°	698.3	698.3	699.5	694.0	690.2
20°	680.3	681.1	681.1	676.8	672.4
22.5°	659.3	661.9	662.8	658.1	652.9
25°	634.5	639.4	642.4	637.7	632.2
27.5°	604.5	612.0	620.8	617.3	611.2
30°	570.9	582.0	596.6	593.7	589.3
32.5°	539.1	550.2	570.3	569.2	566.8
35°	510.3	517.3	540.9	543.8	541.8
37.5°	482.9	489.3	511.4	518.1	516.4
40°	454.0	461.0	478.5	490.4	491.0
42.5°	425.4	432.1	446.4	463.6	463.6
45°	395.1	401.8	414.9	433.9	436.2
47.5°	365.4	372.4	385.2	404.1	407.9
50°	336.2	342.6	355.4	373.8	379.6
52.5°	305.9	312.9	325.4	342.3	350.8
55°	276.7	281.4	295.1	311.4	320.5
57.5°	246.4	250.8	266.2	280.2	289.5
60°	217.2	222.8	234.7	249.0	259.8
62.5°	189.2	195.1	205.3	217.8	230.1
65°	162.1	166.5	176.4	188.9	199.7
67.5°	135.9	139.7	149.6	158.3	169.7
70°	109.3	114.3	121.6	130.0	137.3
72.5°	88.1	90.1	96.2	102.3	109.9
75°	65.0	68.5	73.5	77.0	81.4
77.5°	46.7	48.7	51.6	54.5	58.6
80°	31.2	32.1	34.7	35.3	38.5
82.5°	19.0	19.5	20.1	20.4	21.6
85°	10.2	10.2	10.2	9.6	9.6
87.5°	5.8	5.8	5.0	4.1	2.9
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)