

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: P555268

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-81-86-EDD-90**

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: P555268
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-LD4-2STD-40-UNV-81-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

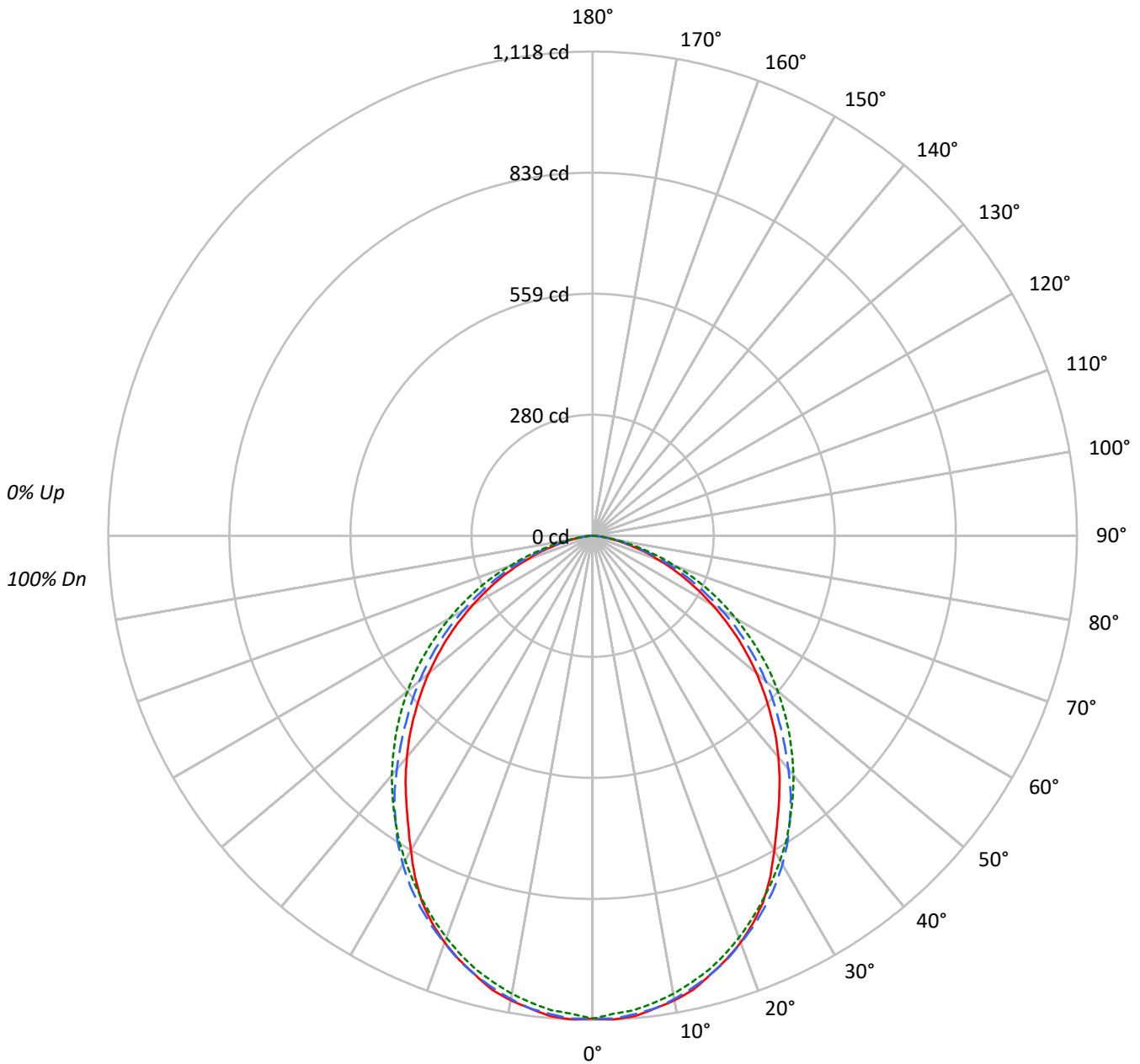
Lumens per Lamp: N/A
Luminaire Lumens: 2578.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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				20				20	
RC	80				70				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				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6000	6000	6000
5°	6016	5991	5940
10°	5952	5936	5868
15°	5847	5847	5780
20°	5723	5731	5657
25°	5535	5603	5514
30°	5212	5446	5379
35°	4925	5220	5229
40°	4685	4938	5068
45°	4418	4639	4877
50°	4135	4371	4670
55°	3814	4068	4417
60°	3435	3711	4108
65°	3032	3300	3736
70°	2527	2810	3174
75°	1986	2244	2485
80°	1420	1581	1751
85°	926	926	871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	4.1
10°-20°	294.9	11.4
20°-30°	430.9	16.7
30°-40°	489.2	19.0
40°-50°	472.2	18.3
50°-60°	389.5	15.1
60°-70°	259.4	10.1
70°-80°	116.1	4.5
80°-90°	20.8	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°	830.8	32.2
0°-40°	1320.0	51.2
0°-60°	2181.7	84.6
0°-90°	2578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2578.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1115	1115	1115	1115	1115	
5°	1114	1113	1109	1103	1100	105
15°	1049	1052	1049	1045	1037	296
25°	932	939	944	937	929	427
35°	750	760	794	799	796	470
45°	580	590	610	637	641	448
55°	406	413	434	457	471	363
65°	238	245	259	278	293	236
75°	96	101	108	113	120	104
85°	15	15	15	14	14	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1114.9	1114.9	1114.9	1114.9	1114.9
2.5°	1117.9	1118.3	1115.8	1108.9	1104.6
5°	1113.6	1113.2	1108.9	1102.9	1099.5
7.5°	1101.2	1102.1	1100.8	1092.2	1087.5
10°	1089.2	1089.6	1086.2	1079.4	1073.8
12.5°	1073.8	1073.4	1068.7	1065.2	1056.2
15°	1049.4	1052.0	1049.4	1044.7	1037.4
17.5°	1025.8	1025.8	1027.5	1019.4	1013.8
20°	999.3	1000.6	1000.6	994.1	987.7
22.5°	968.4	972.3	973.6	966.7	959.0
25°	932.0	939.3	943.6	936.7	928.6
27.5°	887.9	899.0	911.9	906.8	897.8
30°	838.7	854.9	876.3	872.1	865.6
32.5°	792.0	808.2	837.8	836.1	832.7
35°	749.6	759.8	794.5	798.8	795.8
37.5°	709.3	718.7	751.3	761.1	758.6
40°	666.9	677.2	702.9	720.4	721.3
42.5°	624.9	634.8	655.8	681.0	681.0
45°	580.4	590.2	609.5	637.3	640.8
47.5°	536.7	547.0	565.8	593.7	599.2
50°	493.9	503.3	522.1	549.1	557.7
52.5°	449.3	459.6	478.0	502.8	515.3
55°	406.5	413.3	433.5	457.4	470.7
57.5°	361.9	368.4	391.1	411.6	425.3
60°	319.1	327.2	344.8	365.8	381.6
62.5°	278.0	286.5	301.5	320.0	337.9
65°	238.1	244.6	259.1	277.6	293.4
67.5°	199.6	205.2	219.7	232.6	249.3
70°	160.6	167.9	178.6	191.0	201.7
72.5°	129.4	132.4	141.3	150.3	161.5
75°	95.5	100.7	107.9	113.1	119.5
77.5°	68.5	71.5	75.8	80.1	86.1
80°	45.8	47.1	51.0	51.8	56.5
82.5°	27.8	28.7	29.6	30.0	31.7
85°	15.0	15.0	15.0	14.1	14.1
87.5°	8.6	8.6	7.3	6.0	4.3
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)