

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: P555640

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-80-88-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: P555640
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-LD4-3LO-30-UNV-80-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

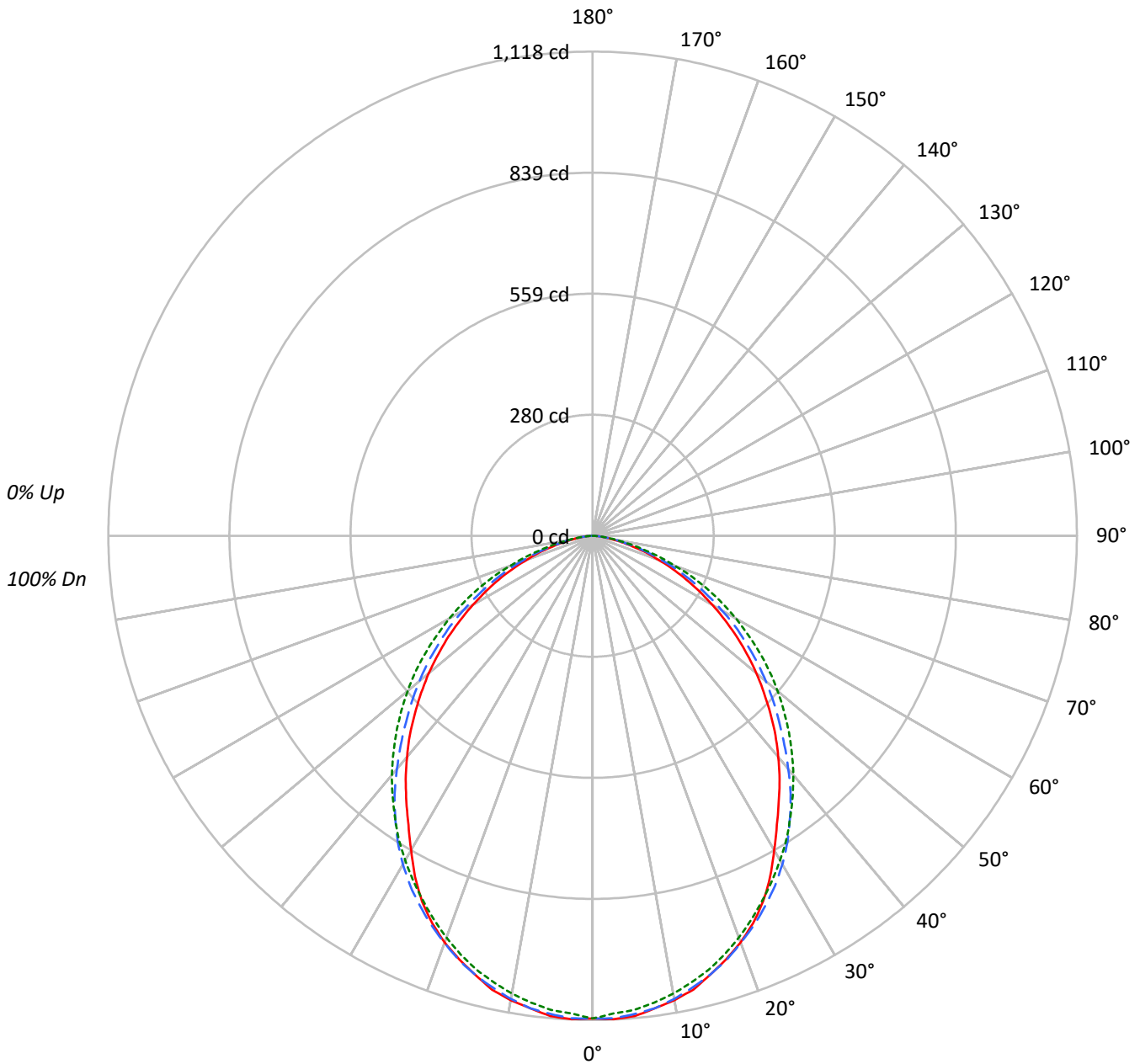
Lumens per Lamp: N/A
Luminaire Lumens: 2577.0 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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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CATALOG NUMBER: FUSL-12-2-LD4-3LO-30-UNV-80-88-EDD-90

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°	5998	5998	5998
5°	6014	5989	5938
10°	5950	5934	5866
15°	5845	5845	5778
20°	5721	5729	5655
25°	5533	5601	5512
30°	5210	5444	5377
35°	4923	5218	5227
40°	4683	4936	5065
45°	4415	4638	4875
50°	4134	4370	4668
55°	3812	4066	4415
60°	3434	3710	4106
65°	3032	3298	3735
70°	2527	2809	3174
75°	1986	2244	2485
80°	1420	1581	1751
85°	926	926	871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	4.1
10°-20°	294.8	11.4
20°-30°	430.8	16.7
30°-40°	489.0	19.0
40°-50°	472.0	18.3
50°-60°	389.4	15.1
60°-70°	259.3	10.1
70°-80°	116.0	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°	830.5	32.2
0°-40°	1319.5	51.2
0°-60°	2180.9	84.6
0°-90°	2577.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2577.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1114	1114	1114	1114	1114	
5°	1113	1113	1108	1102	1099	105
15°	1049	1052	1049	1044	1037	296
25°	932	939	943	936	928	427
35°	749	760	794	798	796	469
45°	580	590	609	637	640	448
55°	406	413	433	457	470	363
65°	238	244	259	277	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°	1114.5	1114.5	1114.5	1114.5	1114.5
2.5°	1117.5	1117.9	1115.3	1108.5	1104.2
5°	1113.2	1112.8	1108.5	1102.5	1099.1
7.5°	1100.8	1101.6	1100.4	1091.8	1087.1
10°	1088.8	1089.2	1085.8	1078.9	1073.4
12.5°	1073.4	1073.0	1068.2	1064.8	1055.8
15°	1049.0	1051.5	1049.0	1044.3	1037.0
17.5°	1025.4	1025.4	1027.1	1019.0	1013.4
20°	998.9	1000.2	1000.2	993.7	987.3
22.5°	968.1	971.9	973.2	966.3	958.6
25°	931.7	938.9	943.2	936.4	928.2
27.5°	887.6	898.7	911.5	906.4	897.4
30°	838.3	854.6	876.0	871.7	865.3
32.5°	791.7	807.9	837.5	835.8	832.3
35°	749.3	759.5	794.2	798.5	795.5
37.5°	709.0	718.4	751.0	760.8	758.3
40°	666.6	676.9	702.6	720.2	721.0
42.5°	624.7	634.5	655.5	680.8	680.8
45°	580.1	590.0	609.3	637.1	640.5
47.5°	536.5	546.8	565.6	593.4	599.0
50°	493.7	503.1	521.9	548.9	557.5
52.5°	449.1	459.4	477.8	502.7	515.1
55°	406.3	413.2	433.3	457.3	470.5
57.5°	361.8	368.2	390.9	411.5	425.2
60°	319.0	327.1	344.7	365.6	381.5
62.5°	277.9	286.4	301.4	319.8	337.8
65°	238.1	244.5	259.0	277.4	293.3
67.5°	199.5	205.1	219.6	232.5	249.2
70°	160.6	167.8	178.5	191.0	201.7
72.5°	129.3	132.3	141.3	150.3	161.4
75°	95.5	100.6	107.9	113.0	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	29.5	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)