

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: P555126

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-UNV-80-87-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: P555126
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-30-UNV-80-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

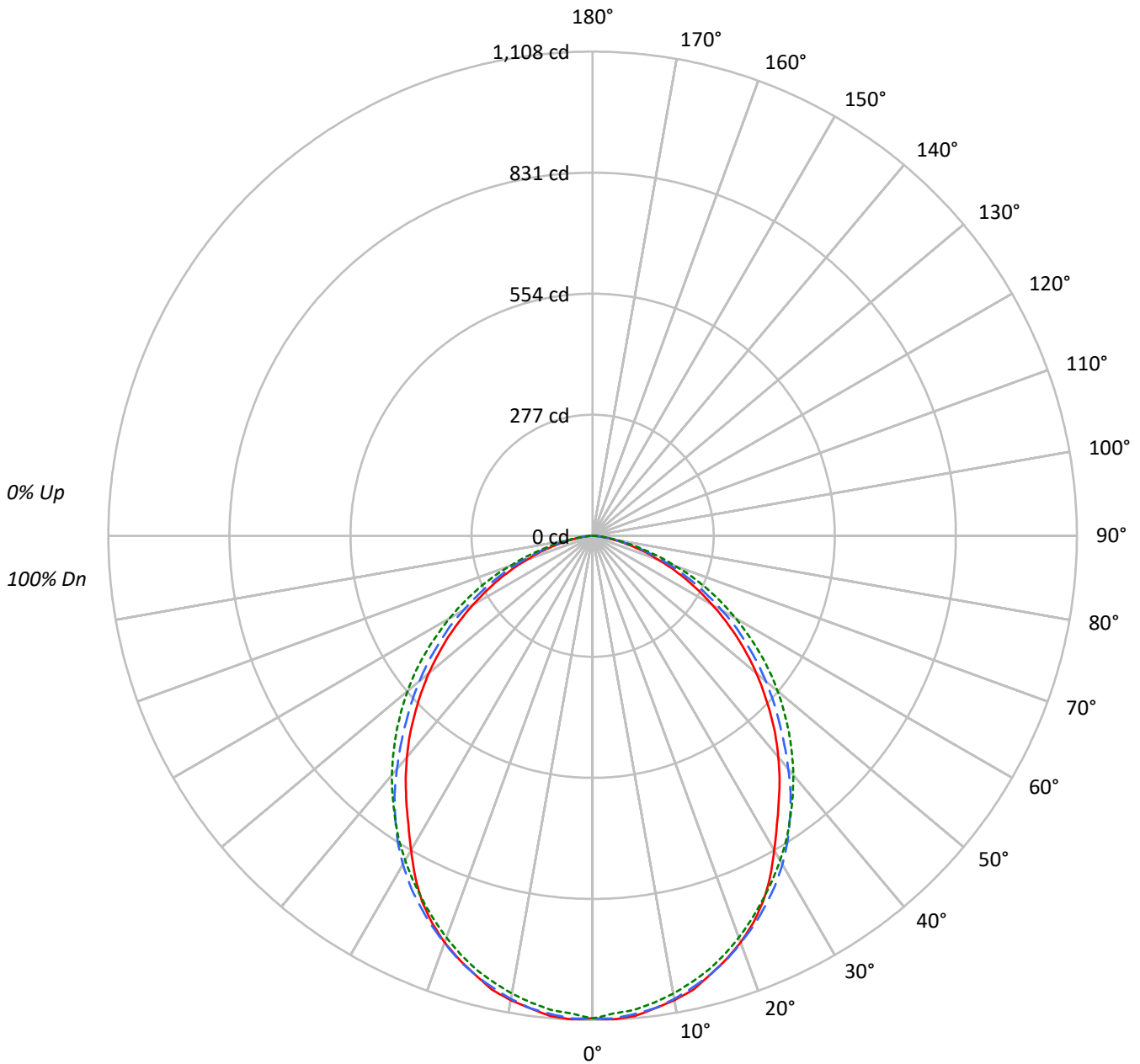
Lumens per Lamp: N/A
Luminaire Lumens: 2554.0 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (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°	5944	5944	5944
5°	5961	5935	5885
10°	5897	5881	5814
15°	5792	5792	5726
20°	5670	5677	5604
25°	5483	5551	5463
30°	5163	5395	5330
35°	4879	5171	5180
40°	4642	4892	5021
45°	4376	4596	4832
50°	4097	4331	4626
55°	3779	4029	4375
60°	3402	3677	4070
65°	3004	3269	3702
70°	2504	2784	3146
75°	1967	2223	2462
80°	1407	1565	1736
85°	920	920	865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.0	4.1
10°-20°	292.2	11.4
20°-30°	426.9	16.7
30°-40°	484.6	19.0
40°-50°	467.8	18.3
50°-60°	385.9	15.1
60°-70°	257.0	10.1
70°-80°	115.0	4.5
80°-90°	20.6	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°	823.1	32.2
0°-40°	1307.7	51.2
0°-60°	2161.4	84.6
0°-90°	2554.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2554.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1104	1104	1104	1104	1104	
5°	1103	1103	1099	1093	1089	104
15°	1040	1042	1040	1035	1028	293
25°	923	931	935	928	920	423
35°	743	753	787	791	788	465
45°	575	585	604	631	635	444
55°	403	410	429	453	466	359
65°	236	242	257	275	291	234
75°	95	100	107	112	118	103
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°	1104.5	1104.5	1104.5	1104.5	1104.5
2.5°	1107.5	1107.9	1105.4	1098.6	1094.4
5°	1103.3	1102.8	1098.6	1092.7	1089.3
7.5°	1091.0	1091.8	1090.5	1082.0	1077.4
10°	1079.1	1079.5	1076.1	1069.3	1063.8
12.5°	1063.8	1063.4	1058.7	1055.3	1046.4
15°	1039.6	1042.2	1039.6	1034.9	1027.7
17.5°	1016.3	1016.3	1018.0	1009.9	1004.4
20°	990.0	991.2	991.2	984.9	978.5
22.5°	959.4	963.2	964.5	957.7	950.1
25°	923.3	930.6	934.8	928.0	920.0
27.5°	879.6	890.7	903.4	898.3	889.4
30°	830.8	847.0	868.2	863.9	857.6
32.5°	784.6	800.7	830.0	828.3	824.9
35°	742.6	752.8	787.1	791.4	788.4
37.5°	702.7	712.0	744.3	754.0	751.5
40°	660.7	670.9	696.3	713.7	714.6
42.5°	619.1	628.9	649.7	674.7	674.7
45°	575.0	584.7	603.8	631.4	634.8
47.5°	531.7	541.9	560.5	588.1	593.6
50°	489.3	498.6	517.3	544.0	552.5
52.5°	445.1	455.3	473.6	498.2	510.5
55°	402.7	409.5	429.4	453.2	466.3
57.5°	358.6	364.9	387.4	407.8	421.4
60°	316.1	324.2	341.6	362.4	378.1
62.5°	275.4	283.9	298.7	317.0	334.8
65°	235.9	242.3	256.7	275.0	290.7
67.5°	197.7	203.3	217.7	230.4	247.0
70°	159.1	166.3	176.9	189.3	199.9
72.5°	128.1	131.1	140.0	148.9	160.0
75°	94.6	99.7	106.9	112.0	118.4
77.5°	67.9	70.9	75.1	79.4	85.3
80°	45.4	46.7	50.5	51.3	56.0
82.5°	27.6	28.4	29.3	29.7	31.4
85°	14.9	14.9	14.9	14.0	14.0
87.5°	8.5	8.5	7.2	5.9	4.2
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)