

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: P555282

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-82-85-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: P555282
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-82-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

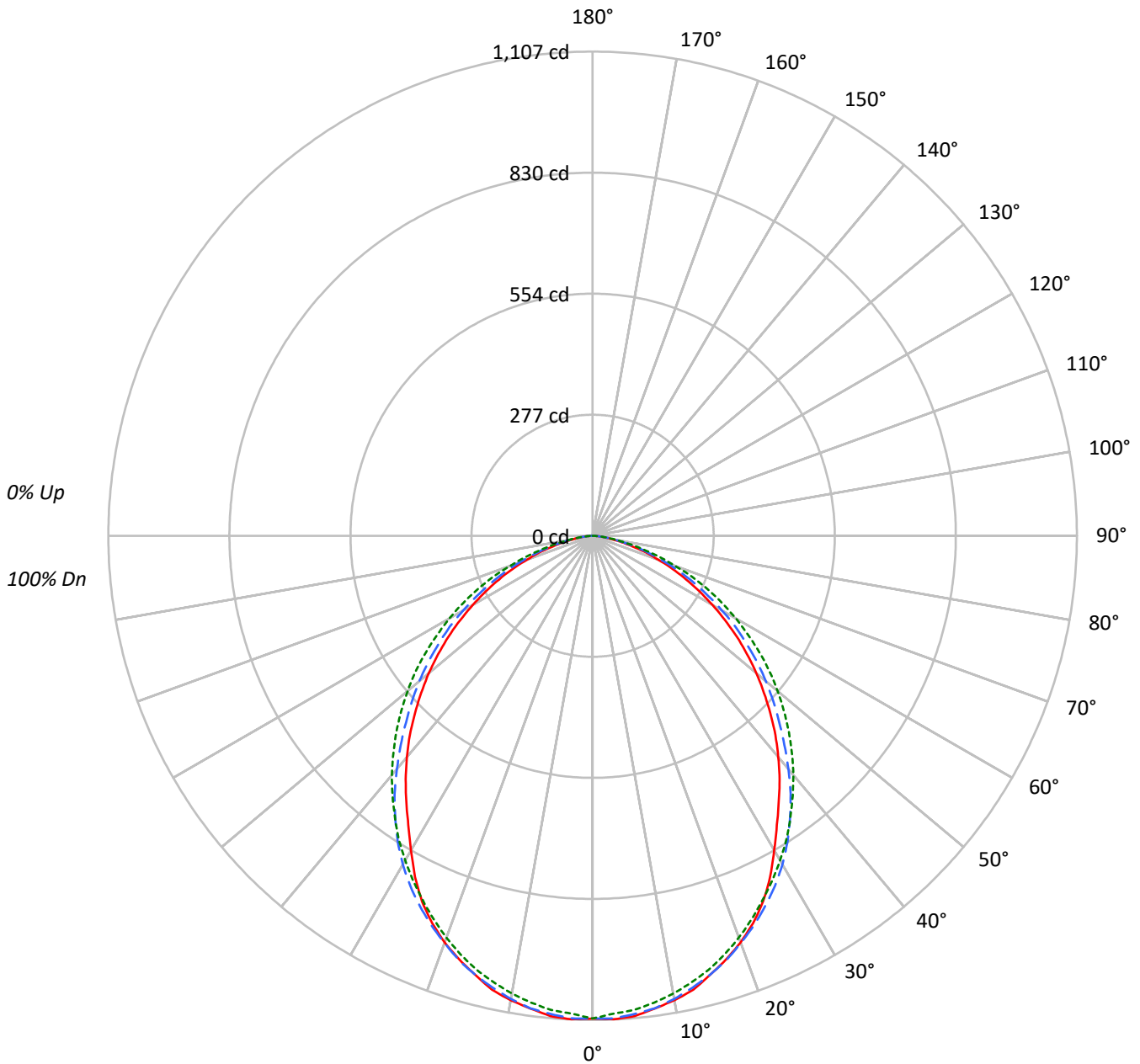
Lumens per Lamp: N/A
Luminaire Lumens: 2552.0 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	5940	5940	5940
5°	5956	5930	5880
10°	5892	5876	5809
15°	5788	5788	5722
20°	5666	5673	5600
25°	5479	5547	5459
30°	5159	5391	5325
35°	4875	5167	5176
40°	4638	4888	5016
45°	4373	4593	4828
50°	4093	4328	4622
55°	3776	4026	4373
60°	3400	3674	4067
65°	3002	3266	3698
70°	2502	2782	3142
75°	1967	2221	2460
80°	1407	1565	1736
85°	914	914	865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.9	4.1
10°-20°	291.9	11.4
20°-30°	426.6	16.7
30°-40°	484.2	19.0
40°-50°	467.5	18.3
50°-60°	385.6	15.1
60°-70°	256.8	10.1
70°-80°	114.9	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°	822.4	32.2
0°-40°	1306.7	51.2
0°-60°	2159.8	84.6
0°-90°	2552.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2552.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1104	1104	1104	1104	1104	
5°	1102	1102	1098	1092	1088	104
15°	1039	1041	1039	1034	1027	293
25°	923	930	934	927	919	423
35°	742	752	786	791	788	465
45°	574	584	603	631	634	443
55°	402	409	429	453	466	359
65°	236	242	256	275	290	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°	1103.7	1103.7	1103.7	1103.7	1103.7
2.5°	1106.6	1107.1	1104.5	1097.7	1093.5
5°	1102.4	1102.0	1097.7	1091.8	1088.4
7.5°	1090.1	1091.0	1089.7	1081.2	1076.5
10°	1078.2	1078.7	1075.3	1068.5	1063.0
12.5°	1063.0	1062.5	1057.9	1054.5	1045.6
15°	1038.8	1041.3	1038.8	1034.1	1026.9
17.5°	1015.5	1015.5	1017.2	1009.1	1003.6
20°	989.2	990.5	990.5	984.1	977.7
22.5°	958.7	962.5	963.8	957.0	949.3
25°	922.6	929.8	934.1	927.3	919.2
27.5°	879.0	890.0	902.7	897.6	888.7
30°	830.2	846.3	867.5	863.3	856.9
32.5°	784.0	800.1	829.3	827.6	824.3
35°	742.0	752.2	786.5	790.8	787.8
37.5°	702.1	711.5	743.7	753.4	750.9
40°	660.2	670.3	695.8	713.2	714.0
42.5°	618.6	628.4	649.1	674.2	674.2
45°	574.5	584.3	603.4	630.9	634.3
47.5°	531.3	541.4	560.1	587.7	593.2
50°	488.9	498.2	516.9	543.6	552.0
52.5°	444.8	455.0	473.2	497.8	510.1
55°	402.4	409.2	429.1	452.8	466.0
57.5°	358.3	364.6	387.1	407.5	421.0
60°	315.9	323.9	341.3	362.1	377.8
62.5°	275.2	283.7	298.5	316.7	334.5
65°	235.7	242.1	256.5	274.8	290.4
67.5°	197.6	203.1	217.5	230.2	246.8
70°	159.0	166.2	176.8	189.1	199.7
72.5°	128.0	131.0	139.9	148.8	159.8
75°	94.6	99.6	106.8	111.9	118.3
77.5°	67.8	70.8	75.0	79.3	85.2
80°	45.4	46.6	50.5	51.3	56.0
82.5°	27.6	28.4	29.3	29.7	31.4
85°	14.8	14.8	14.8	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)