

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: P554778

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-UNV-82-94-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: P554778
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-LD4-2HI-40-UNV-82-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

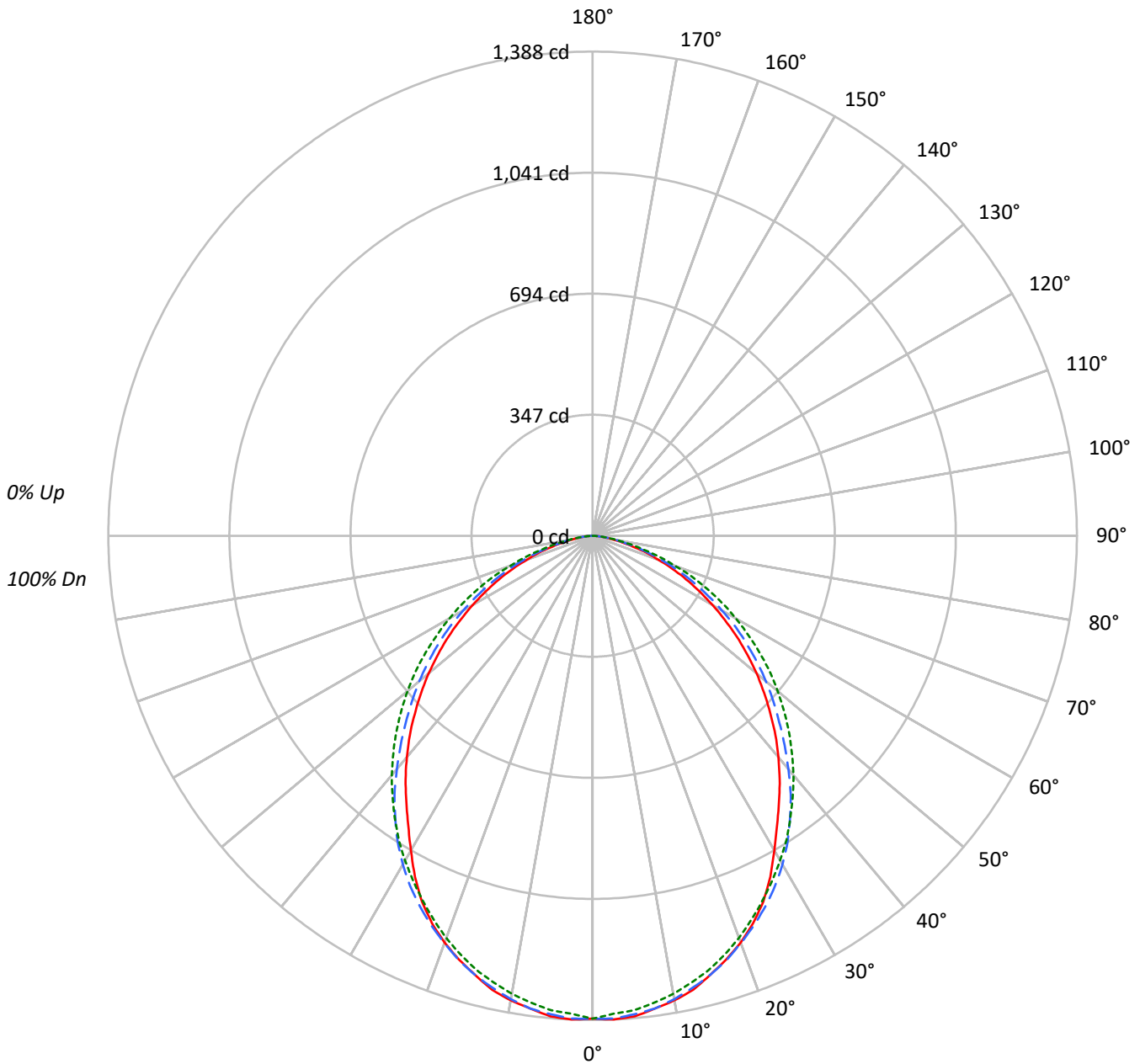
Lumens per Lamp: N/A
Luminaire Lumens: 3201.0 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	7450	7450	7450
5°	7471	7439	7376
10°	7391	7371	7286
15°	7260	7260	7177
20°	7107	7116	7024
25°	6872	6957	6847
30°	6471	6762	6679
35°	6115	6481	6492
40°	5818	6131	6292
45°	5485	5760	6056
50°	5134	5428	5797
55°	4736	5050	5484
60°	4265	4608	5101
65°	3766	4098	4639
70°	3138	3490	3942
75°	2466	2786	3086
80°	1764	1962	2176
85°	1149	1149	1087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	4.1
10°-20°	366.2	11.4
20°-30°	535.1	16.7
30°-40°	607.4	19.0
40°-50°	586.3	18.3
50°-60°	483.7	15.1
60°-70°	322.1	10.1
70°-80°	144.1	4.5
80°-90°	25.8	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°	1031.6	32.2
0°-40°	1639.0	51.2
0°-60°	2709.0	84.6
0°-90°	3201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3201.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1384	1384	1384	1384	1384	
5°	1383	1382	1377	1370	1365	131
15°	1303	1306	1303	1297	1288	367
25°	1157	1166	1172	1163	1153	530
35°	931	944	986	992	988	583
45°	721	733	757	791	796	556
55°	505	513	538	568	584	450
65°	296	304	322	345	364	293
75°	119	125	134	140	148	130
85°	19	19	19	18	18	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1384.3	<i>1384.3</i>	1384.3	1384.3	1384.3
2.5°	<i>1388.1</i>	<i>1388.6</i>	<i>1385.4</i>	<i>1376.9</i>	<i>1371.6</i>
5°	1382.8	<i>1382.2</i>	1376.9	1369.5	1365.2
7.5°	1367.3	<i>1368.4</i>	1366.8	1356.2	1350.3
10°	1352.4	<i>1353.0</i>	1348.7	1340.2	1333.3
12.5°	1333.3	<i>1332.8</i>	1326.9	1322.7	1311.5
15°	1303.0	<i>1306.2</i>	1303.0	1297.1	1288.1
17.5°	1273.7	<i>1273.7</i>	1275.9	1265.8	1258.8
20°	1240.8	<i>1242.4</i>	1242.4	1234.4	1226.4
22.5°	1202.5	<i>1207.3</i>	1208.8	1200.3	1190.8
25°	1157.3	<i>1166.3</i>	1171.6	1163.1	1153.0
27.5°	1102.5	<i>1116.3</i>	1132.3	1125.9	1114.7
30°	1041.3	<i>1061.5</i>	1088.1	1082.8	1074.8
32.5°	983.4	<i>1003.6</i>	1040.3	1038.1	1033.9
35°	930.7	<i>943.5</i>	986.5	991.9	988.1
37.5°	880.7	<i>892.4</i>	932.8	945.1	941.9
40°	828.1	<i>840.8</i>	872.7	894.5	895.6
42.5°	775.9	<i>788.2</i>	814.2	845.6	845.6
45°	720.6	<i>732.9</i>	756.8	791.4	795.6
47.5°	666.4	<i>679.1</i>	702.5	737.1	744.0
50°	613.2	<i>624.9</i>	648.3	681.8	692.4
52.5°	557.9	<i>570.7</i>	593.5	624.4	639.8
55°	504.7	<i>513.2</i>	538.2	568.0	584.5
57.5°	449.4	<i>457.4</i>	485.6	511.1	528.1
60°	396.2	<i>406.3</i>	428.1	454.2	473.9
62.5°	345.2	<i>355.8</i>	374.4	397.3	419.6
65°	295.7	<i>303.7</i>	321.8	344.6	364.3
67.5°	247.8	<i>254.7</i>	272.8	288.8	309.5
70°	199.4	<i>208.5</i>	221.8	237.2	250.5
72.5°	160.6	<i>164.3</i>	175.5	186.7	200.5
75°	118.6	<i>125.0</i>	134.0	140.4	148.4
77.5°	85.1	<i>88.8</i>	94.1	99.5	106.9
80°	56.9	<i>58.5</i>	63.3	64.4	70.2
82.5°	34.6	<i>35.6</i>	36.7	37.2	39.4
85°	18.6	<i>18.6</i>	18.6	17.6	17.6
87.5°	10.6	<i>10.6</i>	9.0	7.4	5.3
90°	0.0	<i>0.0</i>	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)