

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: P555928

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-82-88-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: P555928
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-LD4-3STD-30-UNV-82-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC 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

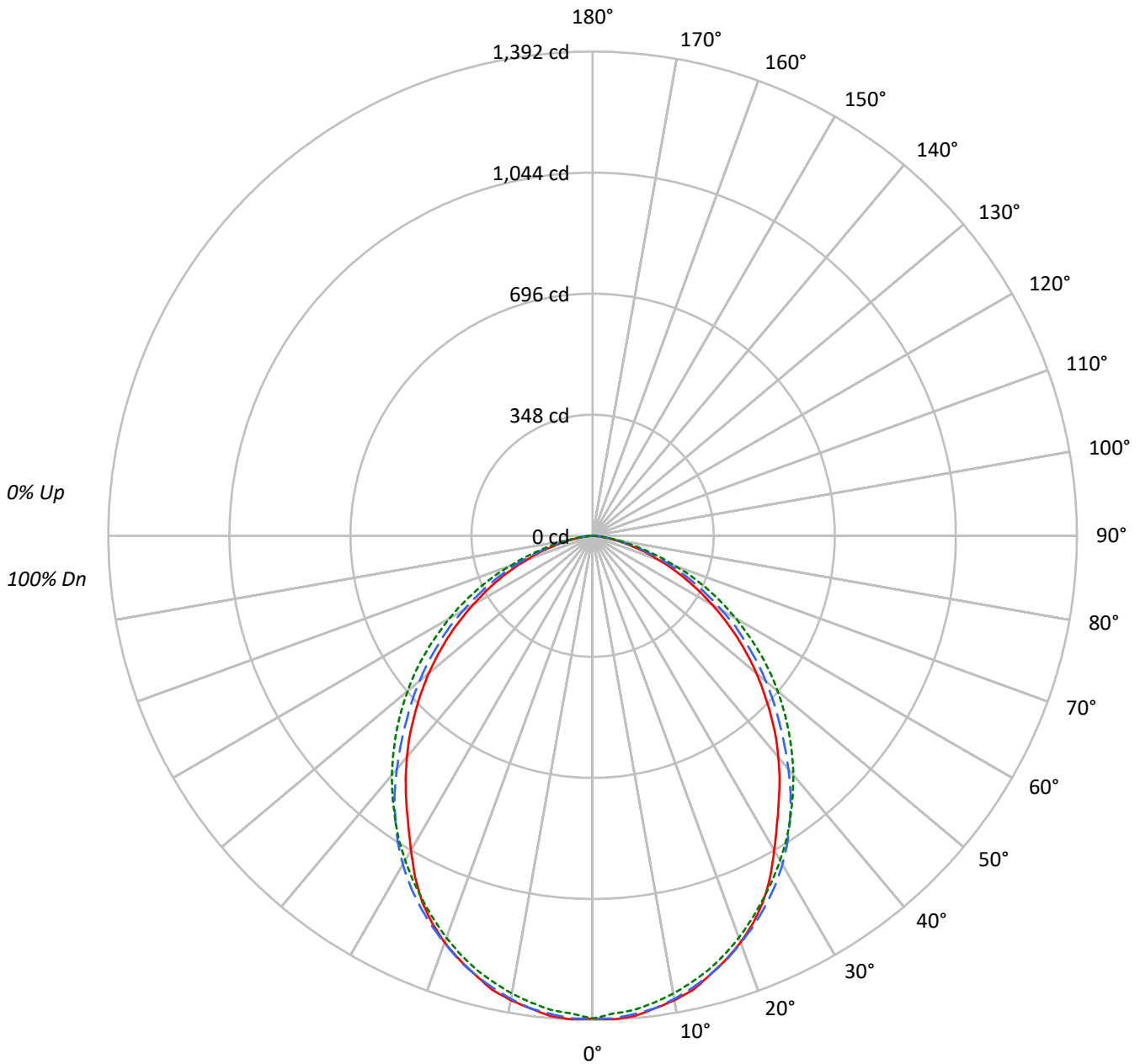
Lumens per Lamp: N/A
Luminaire Lumens: 3209.0 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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				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°	7469	7469	7469
5°	7489	7457	7394
10°	7409	7389	7304
15°	7278	7278	7195
20°	7124	7133	7042
25°	6890	6975	6864
30°	6487	6779	6696
35°	6130	6498	6508
40°	5832	6147	6308
45°	5498	5775	6071
50°	5147	5442	5812
55°	4748	5063	5498
60°	4275	4620	5113
65°	3775	4108	4651
70°	3146	3498	3951
75°	2472	2795	3094
80°	1767	1965	2182
85°	1155	1155	1087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	4.1
10°-20°	367.1	11.4
20°-30°	536.4	16.7
30°-40°	608.9	19.0
40°-50°	587.8	18.3
50°-60°	484.9	15.1
60°-70°	322.9	10.1
70°-80°	144.5	4.5
80°-90°	25.9	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°	1034.2	32.2
0°-40°	1643.1	51.2
0°-60°	2715.8	84.6
0°-90°	3209.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3209.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1388	1388	1388	1388	1388	
5°	1386	1386	1380	1373	1369	131
15°	1306	1309	1306	1300	1291	368
25°	1160	1169	1174	1166	1156	531
35°	933	946	989	994	991	585
45°	722	735	759	793	798	557
55°	506	514	540	569	586	452
65°	296	304	323	346	365	294
75°	119	125	134	141	149	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°	1387.8	<i>1387.8</i>	1387.8	1387.8	1387.8
2.5°	<i>1391.5</i>	<i>1392.1</i>	<i>1388.9</i>	<i>1380.3</i>	<i>1375.0</i>
5°	1386.2	<i>1385.7</i>	1380.3	1372.9	1368.6
7.5°	1370.7	<i>1371.8</i>	1370.2	1359.6	1353.7
10°	1355.8	<i>1356.4</i>	1352.1	1343.6	1336.6
12.5°	1336.6	<i>1336.1</i>	1330.2	1326.0	1314.8
15°	1306.2	<i>1309.4</i>	1306.2	1300.4	1291.3
17.5°	1276.9	<i>1276.9</i>	1279.0	1268.9	1262.0
20°	1243.9	<i>1245.5</i>	1245.5	1237.5	1229.5
22.5°	1205.5	<i>1210.3</i>	1211.9	1203.3	1193.7
25°	1160.2	<i>1169.2</i>	1174.5	1166.0	1155.9
27.5°	1105.2	<i>1119.1</i>	1135.1	1128.7	1117.5
30°	1043.9	<i>1064.2</i>	1090.8	1085.5	1077.5
32.5°	985.8	<i>1006.1</i>	1042.9	1040.7	1036.5
35°	933.0	<i>945.8</i>	989.0	994.3	990.6
37.5°	882.9	<i>894.6</i>	935.2	947.4	944.2
40°	830.1	<i>842.9</i>	874.9	896.8	897.8
42.5°	777.9	<i>790.1</i>	816.3	847.7	847.7
45°	722.4	<i>734.7</i>	758.7	793.3	797.6
47.5°	668.0	<i>680.8</i>	704.3	739.0	745.9
50°	614.7	<i>626.5</i>	649.9	683.5	694.2
52.5°	559.3	<i>572.1</i>	595.0	625.9	641.4
55°	506.0	<i>514.5</i>	539.6	569.4	585.9
57.5°	450.5	<i>458.5</i>	486.8	512.4	529.4
60°	397.2	<i>407.3</i>	429.2	455.3	475.0
62.5°	346.0	<i>356.7</i>	375.3	398.3	420.7
65°	296.4	<i>304.4</i>	322.6	345.5	365.2
67.5°	248.5	<i>255.4</i>	273.5	289.5	310.3
70°	199.9	<i>209.0</i>	222.3	237.8	251.1
72.5°	161.0	<i>164.7</i>	175.9	187.1	201.0
75°	118.9	<i>125.3</i>	134.4	140.8	148.8
77.5°	85.3	<i>89.0</i>	94.4	99.7	107.2
80°	57.0	<i>58.6</i>	63.4	64.5	70.4
82.5°	34.7	<i>35.7</i>	36.8	37.3	39.5
85°	18.7	<i>18.7</i>	18.7	17.6	17.6
87.5°	10.7	<i>10.7</i>	9.1	7.5	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)