

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: P555350

Luminaire Tested: **FUSL-12-2-LD4-2STD-50-UNV-82-87-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: P555350
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-50-UNV-82-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

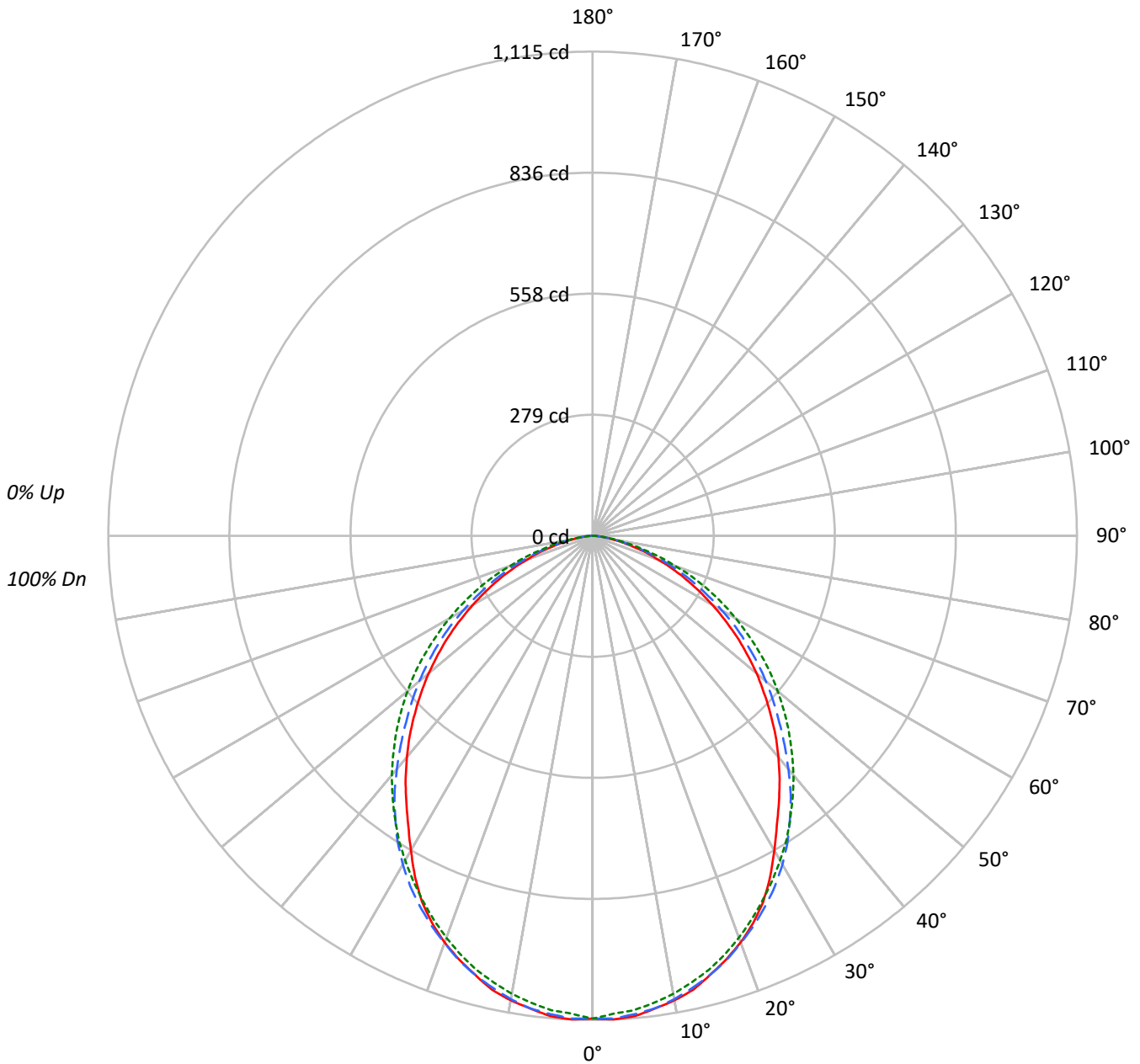
Lumens per Lamp: N/A
Luminaire Lumens: 2571.0 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	5984	5984	5984
5°	6000	5975	5924
10°	5937	5920	5852
15°	5831	5831	5765
20°	5708	5715	5641
25°	5520	5588	5499
30°	5198	5432	5365
35°	4911	5206	5215
40°	4673	4925	5054
45°	4405	4626	4864
50°	4124	4360	4657
55°	3804	4056	4404
60°	3425	3702	4097
65°	3025	3291	3726
70°	2521	2803	3166
75°	1982	2237	2479
80°	1416	1574	1748
85°	926	926	871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.7	4.1
10°-20°	294.1	11.4
20°-30°	429.8	16.7
30°-40°	487.8	19.0
40°-50°	470.9	18.3
50°-60°	388.5	15.1
60°-70°	258.7	10.1
70°-80°	115.8	4.5
80°-90°	20.7	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°	828.6	32.2
0°-40°	1316.4	51.2
0°-60°	2175.8	84.6
0°-90°	2571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1112	1112	1112	1112	1112	
5°	1111	1110	1106	1100	1096	105
15°	1046	1049	1046	1042	1035	295
25°	930	937	941	934	926	426
35°	748	758	792	797	794	468
45°	579	589	608	636	639	447
55°	405	412	432	456	469	362
65°	238	244	258	277	293	235
75°	95	100	108	113	119	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°	1111.9	<i>1111.9</i>	1111.9	1111.9	1111.9
2.5°	<i>1114.9</i>	<i>1115.3</i>	<i>1112.7</i>	<i>1105.9</i>	<i>1101.6</i>
5°	1110.6	<i>1110.2</i>	1105.9	1099.9	1096.5
7.5°	1098.2	<i>1099.1</i>	1097.8	1089.3	1084.6
10°	1086.3	<i>1086.7</i>	1083.3	1076.4	1070.9
12.5°	1070.9	<i>1070.5</i>	1065.8	1062.3	1053.4
15°	1046.5	<i>1049.1</i>	1046.5	1041.8	1034.6
17.5°	1023.0	<i>1023.0</i>	1024.8	1016.6	1011.1
20°	996.6	<i>997.8</i>	997.8	991.4	985.0
22.5°	965.8	<i>969.6</i>	970.9	964.1	956.4
25°	929.5	<i>936.8</i>	941.0	934.2	926.1
27.5°	885.5	<i>896.6</i>	909.4	904.3	895.3
30°	836.4	<i>852.6</i>	874.0	869.7	863.3
32.5°	789.8	<i>806.0</i>	835.5	833.8	830.4
35°	747.5	<i>757.8</i>	792.4	796.6	793.7
37.5°	707.4	<i>716.8</i>	749.2	759.1	756.5
40°	665.1	<i>675.3</i>	701.0	718.5	719.3
42.5°	623.2	<i>633.0</i>	654.0	679.2	679.2
45°	578.8	<i>588.6</i>	607.8	635.6	639.0
47.5°	535.2	<i>545.5</i>	564.3	592.0	597.6
50°	492.5	<i>501.9</i>	520.7	547.6	556.2
52.5°	448.1	<i>458.3</i>	476.7	501.5	513.9
55°	405.4	<i>412.2</i>	432.3	456.2	469.4
57.5°	360.9	<i>367.4</i>	390.0	410.5	424.2
60°	318.2	<i>326.3</i>	343.9	364.8	380.6
62.5°	277.2	<i>285.8</i>	300.7	319.1	337.0
65°	237.5	<i>243.9</i>	258.4	276.8	292.6
67.5°	199.1	<i>204.6</i>	219.1	231.9	248.6
70°	160.2	<i>167.4</i>	178.1	190.5	201.2
72.5°	129.0	<i>132.0</i>	141.0	149.9	161.0
75°	95.3	<i>100.4</i>	107.6	112.8	119.2
77.5°	68.3	<i>71.3</i>	75.6	79.9	85.9
80°	45.7	<i>47.0</i>	50.8	51.7	56.4
82.5°	27.8	<i>28.6</i>	29.5	29.9	31.6
85°	15.0	<i>15.0</i>	15.0	14.1	14.1
87.5°	8.5	<i>8.5</i>	7.3	6.0	4.3
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)