

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: P555881

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-93-88-EDD**

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: P555881
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-LD4-3LO-50-UNV-93-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

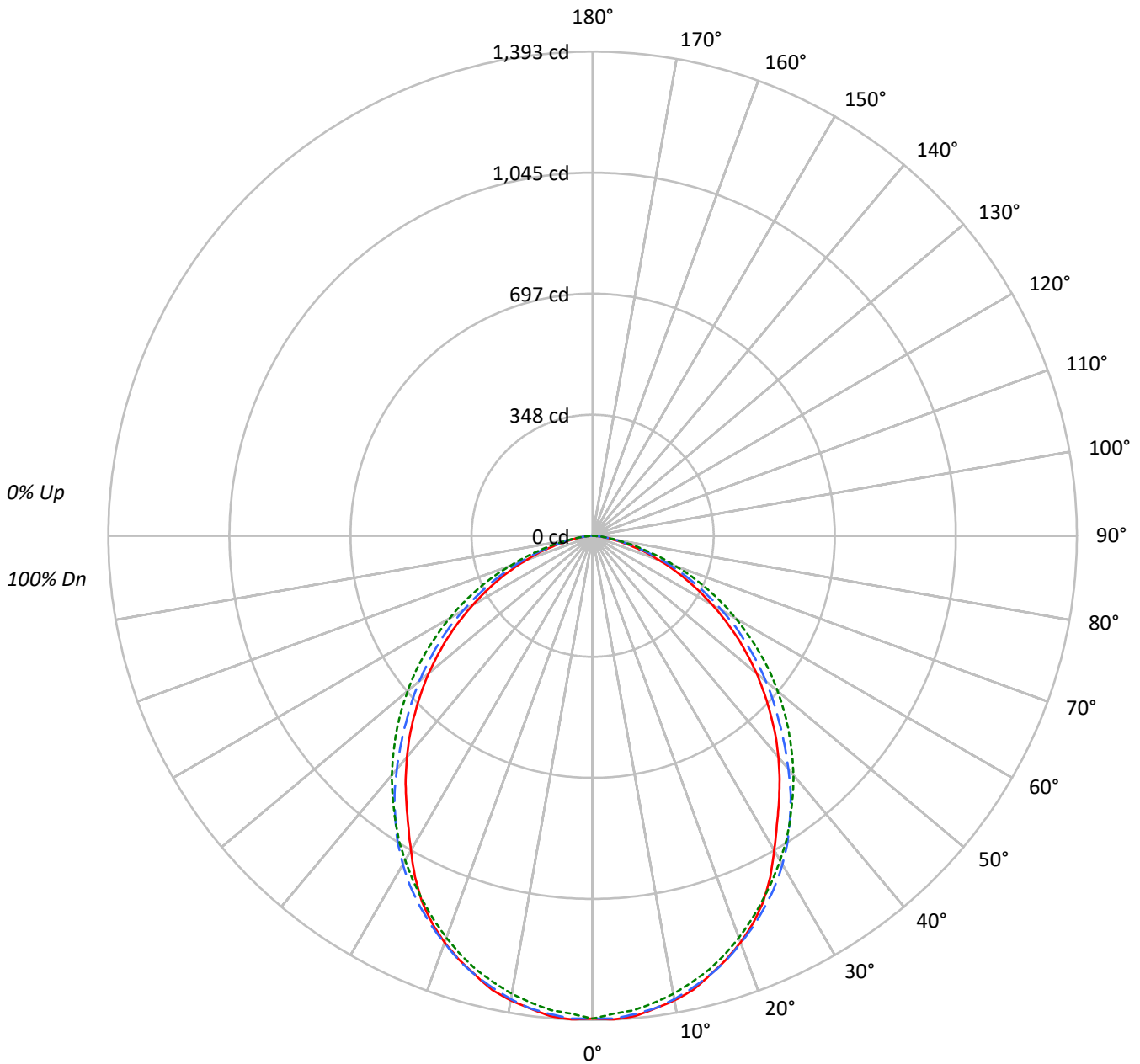
Lumens per Lamp: N/A
Luminaire Lumens: 3212.0 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	7476	7476	7476
5°	7496	7464	7401
10°	7417	7396	7312
15°	7285	7285	7202
20°	7131	7140	7048
25°	6896	6981	6871
30°	6494	6786	6702
35°	6136	6504	6514
40°	5838	6152	6314
45°	5504	5780	6076
50°	5152	5447	5817
55°	4752	5068	5503
60°	4280	4624	5118
65°	3778	4112	4656
70°	3149	3501	3956
75°	2475	2797	3096
80°	1770	1968	2182
85°	1155	1155	1087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.8	4.1
10°-20°	367.4	11.4
20°-30°	536.9	16.7
30°-40°	609.5	19.0
40°-50°	588.3	18.3
50°-60°	485.3	15.1
60°-70°	323.2	10.1
70°-80°	144.6	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°	1035.1	32.2
0°-40°	1644.6	51.2
0°-60°	2718.3	84.6
0°-90°	3212.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3212.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1389	1389	1389	1389	1389	
5°	1388	1387	1382	1374	1370	131
15°	1308	1311	1308	1302	1292	369
25°	1161	1170	1176	1167	1157	532
35°	934	947	990	995	992	585
45°	723	735	759	794	798	558
55°	506	515	540	570	586	452
65°	297	305	323	346	366	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°	1389.1	<i>1389.1</i>	1389.1	1389.1	1389.1
2.5°	<i>1392.8</i>	<i>1393.4</i>	<i>1390.2</i>	<i>1381.6</i>	<i>1376.3</i>
5°	1387.5	<i>1387.0</i>	1381.6	1374.2	1369.9
7.5°	1372.0	<i>1373.1</i>	1371.5	1360.8	1355.0
10°	1357.1	<i>1357.6</i>	1353.4	1344.8	1337.9
12.5°	1337.9	<i>1337.3</i>	1331.5	1327.2	1316.0
15°	1307.5	<i>1310.7</i>	1307.5	1301.6	1292.5
17.5°	1278.1	<i>1278.1</i>	1280.2	1270.1	1263.2
20°	1245.0	<i>1246.6</i>	1246.6	1238.6	1230.6
22.5°	1206.6	<i>1211.4</i>	1213.0	1204.5	1194.9
25°	1161.2	<i>1170.3</i>	1175.6	1167.1	1157.0
27.5°	1106.3	<i>1120.1</i>	1136.2	1129.8	1118.5
30°	1044.9	<i>1065.2</i>	1091.9	1086.5	1078.5
32.5°	986.7	<i>1007.0</i>	1043.8	1041.7	1037.4
35°	933.9	<i>946.7</i>	989.9	995.3	991.5
37.5°	883.7	<i>895.5</i>	936.0	948.3	945.1
40°	830.9	<i>843.7</i>	875.7	897.6	898.7
42.5°	778.6	<i>790.9</i>	817.0	848.5	848.5
45°	723.1	<i>735.4</i>	759.4	794.1	798.3
47.5°	668.7	<i>681.5</i>	705.0	739.6	746.6
50°	615.3	<i>627.0</i>	650.5	684.1	694.8
52.5°	559.8	<i>572.6</i>	595.6	626.5	642.0
55°	506.4	<i>515.0</i>	540.1	569.9	586.5
57.5°	450.9	<i>458.9</i>	487.2	512.8	529.9
60°	397.6	<i>407.7</i>	429.6	455.7	475.5
62.5°	346.3	<i>357.0</i>	375.7	398.6	421.1
65°	296.7	<i>304.7</i>	322.9	345.8	365.6
67.5°	248.7	<i>255.6</i>	273.8	289.8	310.6
70°	200.1	<i>209.2</i>	222.5	238.0	251.4
72.5°	161.2	<i>164.9</i>	176.1	187.3	201.2
75°	119.0	<i>125.4</i>	134.5	140.9	148.9
77.5°	85.4	<i>89.1</i>	94.5	99.8	107.3
80°	57.1	<i>58.7</i>	63.5	64.6	70.4
82.5°	34.7	<i>35.8</i>	36.8	37.4	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)