

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: P555833

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-80-88-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: P555833
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-80-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC 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

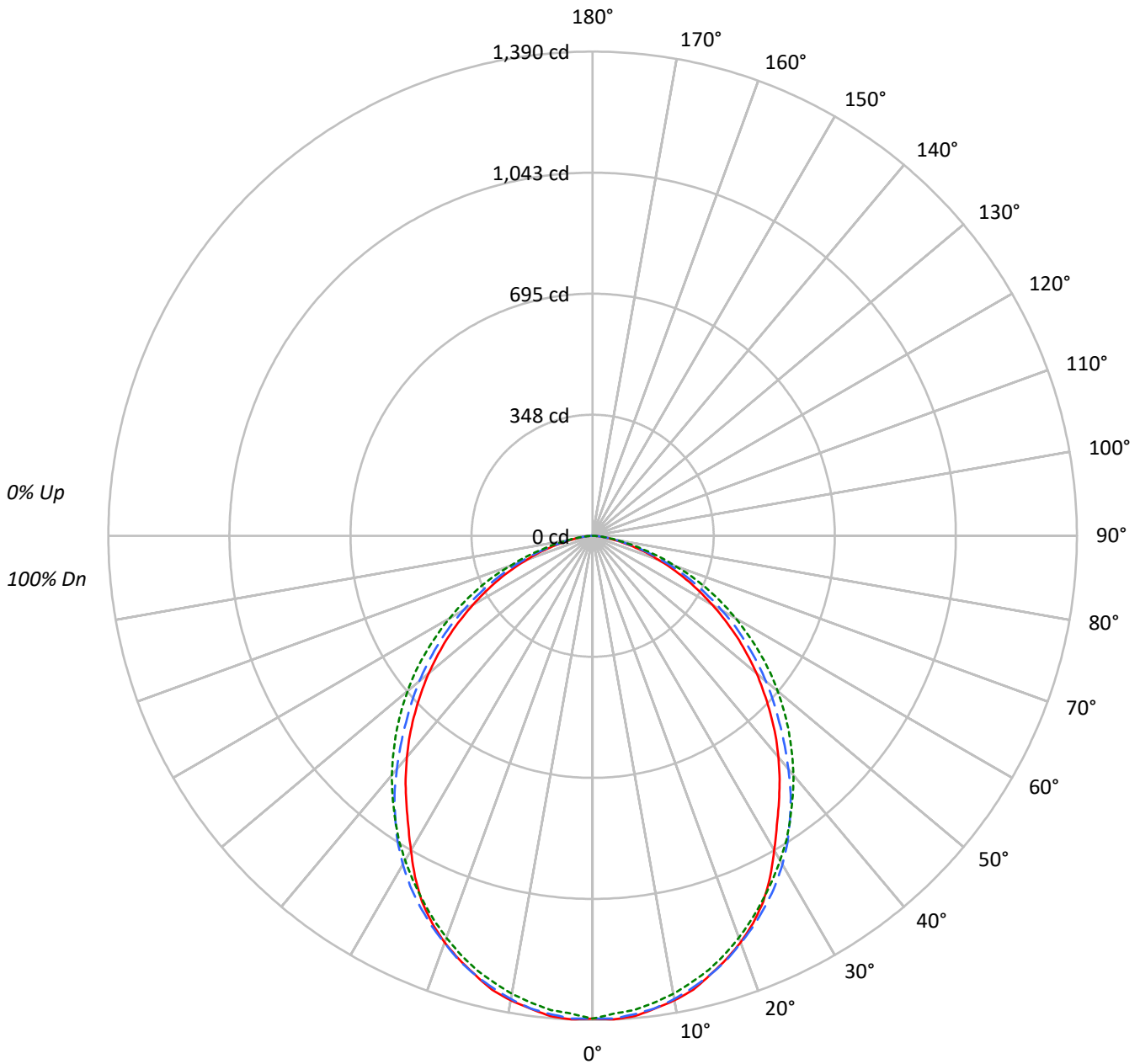
Lumens per Lamp: N/A
Luminaire Lumens: 3205.0 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (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°	7460	7460	7460
5°	7480	7448	7385
10°	7400	7380	7296
15°	7269	7269	7186
20°	7115	7124	7033
25°	6881	6966	6855
30°	6479	6771	6688
35°	6123	6490	6501
40°	5825	6139	6300
45°	5492	5767	6063
50°	5141	5435	5805
55°	4741	5057	5491
60°	4270	4614	5107
65°	3771	4103	4646
70°	3142	3493	3947
75°	2468	2791	3090
80°	1767	1965	2179
85°	1149	1149	1087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.5	4.1
10°-20°	366.6	11.4
20°-30°	535.8	16.7
30°-40°	608.1	19.0
40°-50°	587.1	18.3
50°-60°	484.3	15.1
60°-70°	322.5	10.1
70°-80°	144.3	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°	1032.9	32.2
0°-40°	1641.0	51.2
0°-60°	2712.4	84.6
0°-90°	3205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3205.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1386	1386	1386	1386	1386	
5°	1384	1384	1379	1371	1367	131
15°	1305	1308	1305	1299	1290	368
25°	1159	1168	1173	1165	1154	531
35°	932	945	988	993	989	584
45°	722	734	758	792	797	557
55°	505	514	539	569	585	451
65°	296	304	322	345	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°	1386.1	<i>1386.1</i>	1386.1	1386.1	1386.1
2.5°	<i>1389.8</i>	<i>1390.3</i>	<i>1387.1</i>	<i>1378.6</i>	<i>1373.3</i>
5°	1384.5	<i>1383.9</i>	1378.6	1371.2	1366.9
7.5°	1369.0	<i>1370.1</i>	1368.5	1357.9	1352.0
10°	1354.1	<i>1354.7</i>	1350.4	1341.9	1335.0
12.5°	1335.0	<i>1334.4</i>	1328.6	1324.3	1313.1
15°	1304.6	<i>1307.8</i>	1304.6	1298.8	1289.7
17.5°	1275.3	<i>1275.3</i>	1277.5	1267.3	1260.4
20°	1242.3	<i>1243.9</i>	1243.9	1235.9	1227.9
22.5°	1204.0	<i>1208.8</i>	1210.4	1201.8	1192.3
25°	1158.7	<i>1167.8</i>	1173.1	1164.6	1154.4
27.5°	1103.9	<i>1117.7</i>	1133.7	1127.3	1116.1
30°	1042.6	<i>1062.9</i>	1089.5	1084.2	1076.2
32.5°	984.6	<i>1004.8</i>	1041.6	1039.4	1035.2
35°	931.9	<i>944.6</i>	987.8	993.1	989.4
37.5°	881.8	<i>893.5</i>	934.0	946.2	943.0
40°	829.1	<i>841.9</i>	873.8	895.7	896.7
42.5°	776.9	<i>789.2</i>	815.2	846.7	846.7
45°	721.5	<i>733.8</i>	757.7	792.3	796.6
47.5°	667.2	<i>680.0</i>	703.4	738.0	745.0
50°	614.0	<i>625.7</i>	649.1	682.7	693.3
52.5°	558.6	<i>571.4</i>	594.3	625.1	640.6
55°	505.3	<i>513.9</i>	538.9	568.7	585.2
57.5°	450.0	<i>457.9</i>	486.2	511.7	528.8
60°	396.7	<i>406.8</i>	428.7	454.7	474.5
62.5°	345.6	<i>356.2</i>	374.9	397.8	420.1
65°	296.1	<i>304.1</i>	322.2	345.1	364.8
67.5°	248.1	<i>255.1</i>	273.2	289.1	309.9
70°	199.7	<i>208.7</i>	222.0	237.5	250.8
72.5°	160.8	<i>164.5</i>	175.7	186.9	200.7
75°	118.7	<i>125.1</i>	134.2	140.6	148.6
77.5°	85.2	<i>88.9</i>	94.3	99.6	107.0
80°	57.0	<i>58.6</i>	63.4	64.4	70.3
82.5°	34.6	<i>35.7</i>	36.7	37.3	39.4
85°	18.6	<i>18.6</i>	18.6	17.6	17.6
87.5°	10.6	<i>10.6</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)