

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: P555766

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-80-87-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: P555766
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-40-UNV-80-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

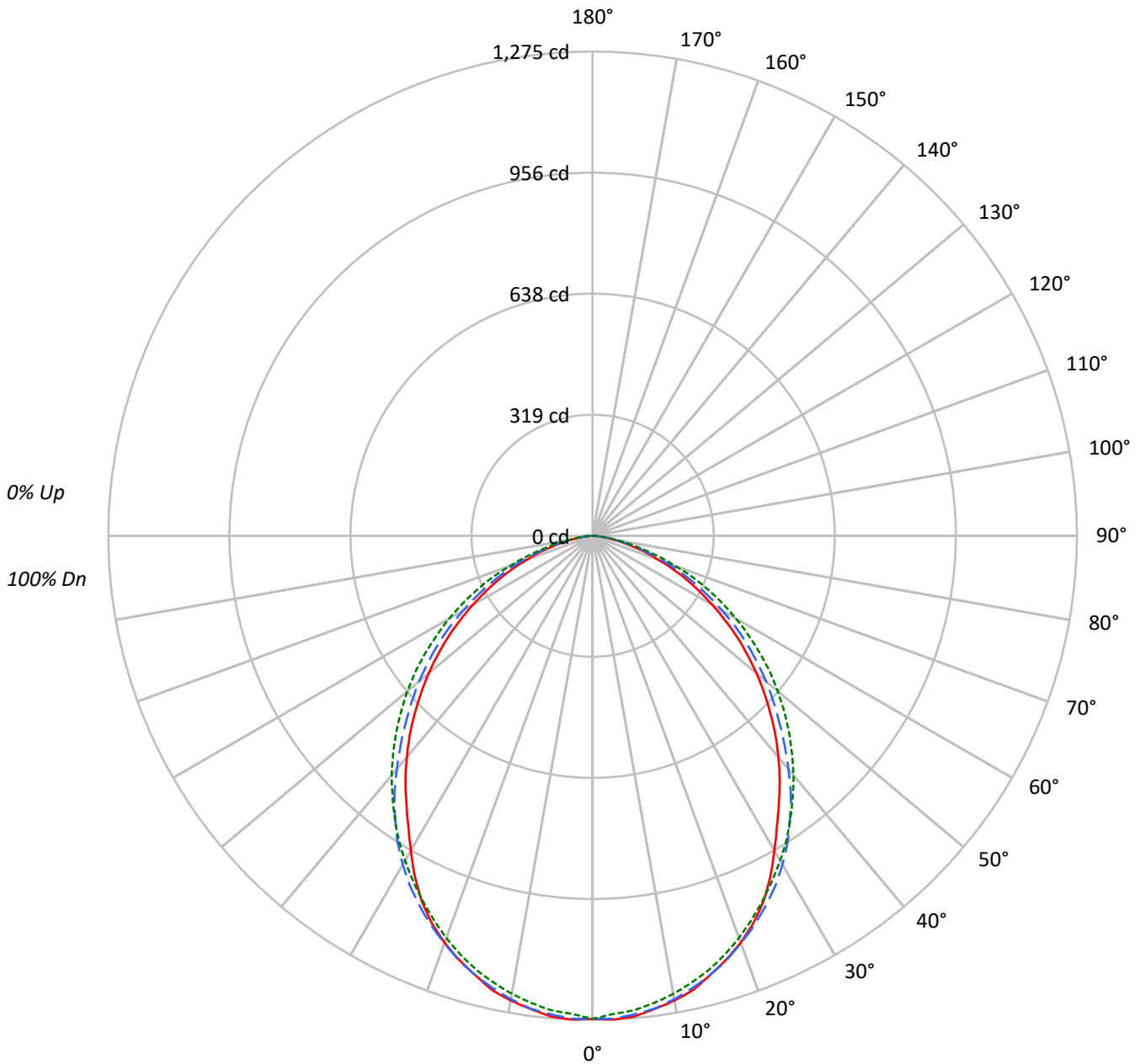
Lumens per Lamp: N/A
Luminaire Lumens: 2941.0 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6845	6845	6845
5°	6863	6835	6776
10°	6791	6772	6695
15°	6670	6670	6594
20°	6529	6537	6454
25°	6314	6393	6291
30°	5945	6213	6137
35°	5618	5955	5965
40°	5345	5633	5781
45°	5039	5292	5564
50°	4717	4987	5327
55°	4351	4640	5039
60°	3918	4233	4687
65°	3460	3764	4262
70°	2883	3207	3621
75°	2267	2560	2834
80°	1621	1801	1999
85°	1056	1056	994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	4.1
10°-20°	336.4	11.4
20°-30°	491.6	16.7
30°-40°	558.0	19.0
40°-50°	538.7	18.3
50°-60°	444.4	15.1
60°-70°	295.9	10.1
70°-80°	132.4	4.5
80°-90°	23.7	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°	947.8	32.2
0°-40°	1505.8	51.2
0°-60°	2488.9	84.6
0°-90°	2941.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2941.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1272	1272	1272	1272	1272	
5°	1270	1270	1265	1258	1254	120
15°	1197	1200	1197	1192	1184	337
25°	1063	1072	1076	1069	1059	487
35°	855	867	906	911	908	536
45°	662	673	695	727	731	511
55°	464	472	494	522	537	414
65°	272	279	296	317	335	269
75°	109	115	123	129	136	119
85°	17	17	17	16	16	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1271.9	1271.9	1271.9	1271.9	1271.9
2.5°	1275.3	1275.8	1272.9	1265.1	1260.2
5°	1270.4	1270.0	1265.1	1258.2	1254.3
7.5°	1256.3	1257.2	1255.8	1246.0	1240.6
10°	1242.6	1243.1	1239.2	1231.4	1225.0
12.5°	1225.0	1224.5	1219.1	1215.2	1205.0
15°	1197.1	1200.1	1197.1	1191.8	1183.5
17.5°	1170.3	1170.3	1172.2	1162.9	1156.6
20°	1140.0	1141.4	1141.4	1134.1	1126.8
22.5°	1104.8	1109.2	1110.7	1102.8	1094.0
25°	1063.3	1071.6	1076.5	1068.6	1059.4
27.5°	1012.9	1025.6	1040.3	1034.4	1024.2
30°	956.7	975.3	999.7	994.9	987.5
32.5°	903.5	922.0	955.8	953.8	949.9
35°	855.1	866.8	906.4	911.3	907.9
37.5°	809.2	819.9	857.1	868.3	865.4
40°	760.8	772.5	801.8	821.9	822.9
42.5°	712.9	724.2	748.1	776.9	776.9
45°	662.1	673.3	695.3	727.1	731.0
47.5°	612.3	624.0	645.5	677.2	683.6
50°	563.4	574.1	595.6	626.4	636.2
52.5°	512.6	524.3	545.3	573.7	587.8
55°	463.7	471.5	494.5	521.9	537.0
57.5°	412.9	420.2	446.1	469.6	485.2
60°	364.0	373.3	393.3	417.3	435.4
62.5°	317.1	326.9	344.0	365.0	385.5
65°	271.7	279.0	295.6	316.6	334.7
67.5°	227.7	234.1	250.7	265.3	284.4
70°	183.2	191.5	203.8	217.9	230.1
72.5°	147.6	151.0	161.2	171.5	184.2
75°	109.0	114.8	123.1	129.0	136.3
77.5°	78.2	81.6	86.5	91.4	98.2
80°	52.3	53.7	58.1	59.1	64.5
82.5°	31.8	32.7	33.7	34.2	36.2
85°	17.1	17.1	17.1	16.1	16.1
87.5°	9.8	9.8	8.3	6.8	4.9
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







(END OF REPORT)