

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: P555846

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-81-87-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: P555846
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-81-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 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

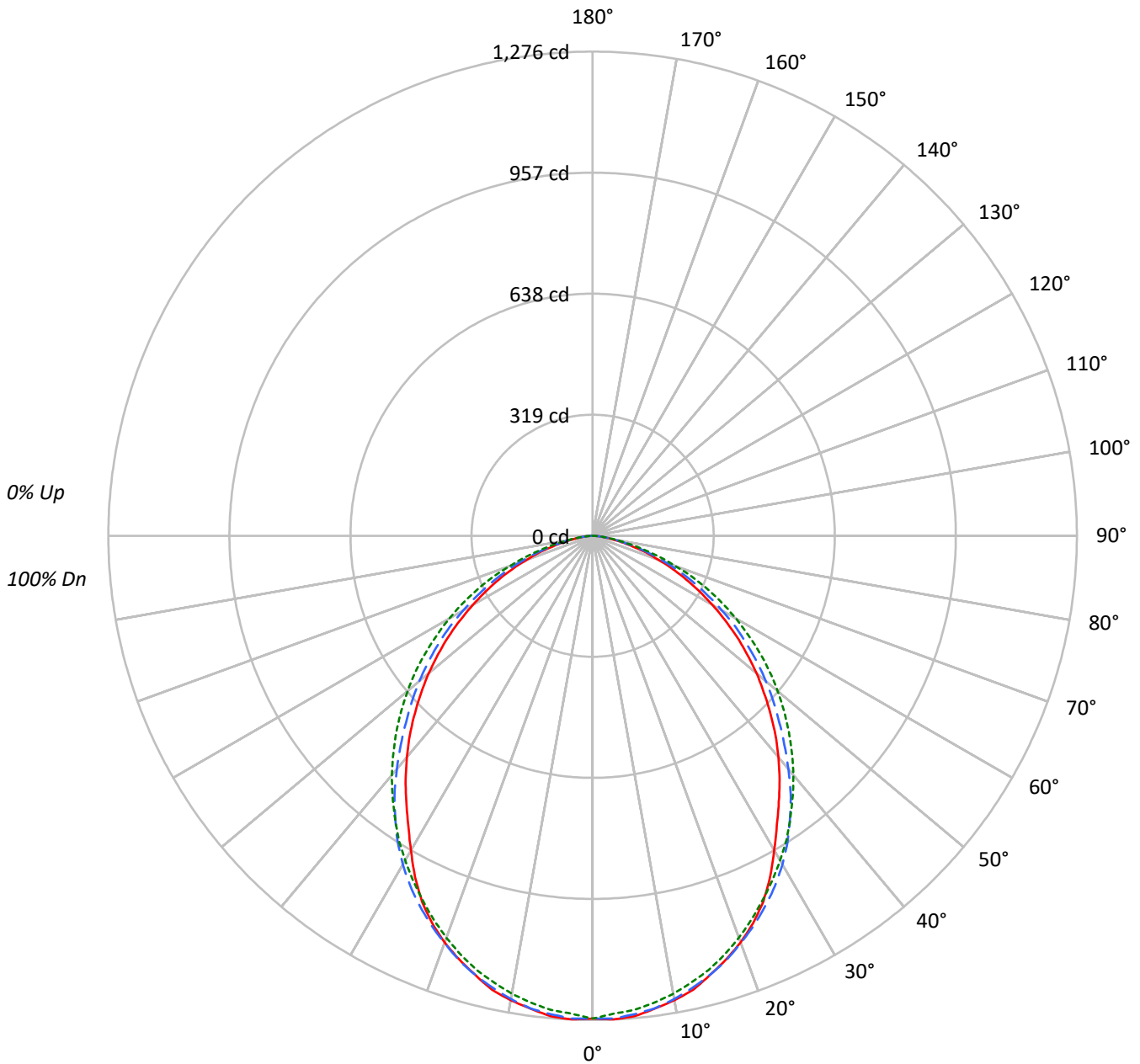
Lumens per Lamp: N/A
Luminaire Lumens: 2942.0 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (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°	6847	6847	6847
5°	6866	6837	6779
10°	6793	6774	6697
15°	6673	6673	6596
20°	6531	6539	6456
25°	6316	6394	6293
30°	5948	6215	6139
35°	5620	5957	5967
40°	5347	5635	5783
45°	5041	5294	5565
50°	4719	4989	5328
55°	4353	4642	5041
60°	3920	4236	4688
65°	3461	3766	4264
70°	2884	3207	3622
75°	2267	2562	2836
80°	1621	1804	1999
85°	1056	1056	994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	4.1
10°-20°	336.5	11.4
20°-30°	491.8	16.7
30°-40°	558.2	19.0
40°-50°	538.9	18.3
50°-60°	444.5	15.1
60°-70°	296.0	10.1
70°-80°	132.5	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°	948.1	32.2
0°-40°	1506.4	51.2
0°-60°	2489.8	84.6
0°-90°	2942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2942.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1272	1272	1272	1272	1272	
5°	1271	1270	1266	1259	1255	120
15°	1198	1200	1198	1192	1184	338
25°	1064	1072	1077	1069	1060	487
35°	855	867	907	912	908	536
45°	662	674	696	727	731	511
55°	464	472	495	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°	1272.3	1272.3	1272.3	1272.3	1272.3
2.5°	1275.8	1276.2	1273.3	1265.5	1260.6
5°	1270.9	1270.4	1265.5	1258.7	1254.7
7.5°	1256.7	1257.7	1256.2	1246.4	1241.1
10°	1243.0	1243.5	1239.6	1231.8	1225.4
12.5°	1225.4	1224.9	1219.5	1215.6	1205.4
15°	1197.6	1200.5	1197.6	1192.2	1183.9
17.5°	1170.7	1170.7	1172.6	1163.3	1157.0
20°	1140.4	1141.8	1141.8	1134.5	1127.2
22.5°	1105.2	1109.6	1111.0	1103.2	1094.4
25°	1063.6	1071.9	1076.8	1069.0	1059.7
27.5°	1013.3	1026.0	1040.6	1034.8	1024.5
30°	957.1	975.6	1000.1	995.2	987.9
32.5°	903.8	922.4	956.1	954.1	950.2
35°	855.4	867.1	906.7	911.6	908.2
37.5°	809.4	820.2	857.4	868.6	865.7
40°	761.1	772.8	802.1	822.2	823.1
42.5°	713.2	724.4	748.3	777.2	777.2
45°	662.3	673.6	695.6	727.3	731.2
47.5°	612.5	624.2	645.7	677.5	683.8
50°	563.6	574.3	595.8	626.6	636.4
52.5°	512.7	524.5	545.5	573.8	588.0
55°	463.9	471.7	494.7	522.0	537.2
57.5°	413.0	420.4	446.3	469.7	485.4
60°	364.2	373.4	393.5	417.4	435.5
62.5°	317.2	327.0	344.1	365.1	385.7
65°	271.8	279.1	295.7	316.7	334.8
67.5°	227.8	234.1	250.8	265.4	284.5
70°	183.3	191.6	203.8	218.0	230.2
72.5°	147.6	151.0	161.3	171.6	184.3
75°	109.0	114.9	123.2	129.0	136.4
77.5°	78.2	81.6	86.5	91.4	98.2
80°	52.3	53.8	58.2	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)