

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: P555314

Luminaire Tested: **FUSL-12-2-LD4-2STD-50-UNV-80-85-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: P555314
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-80-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

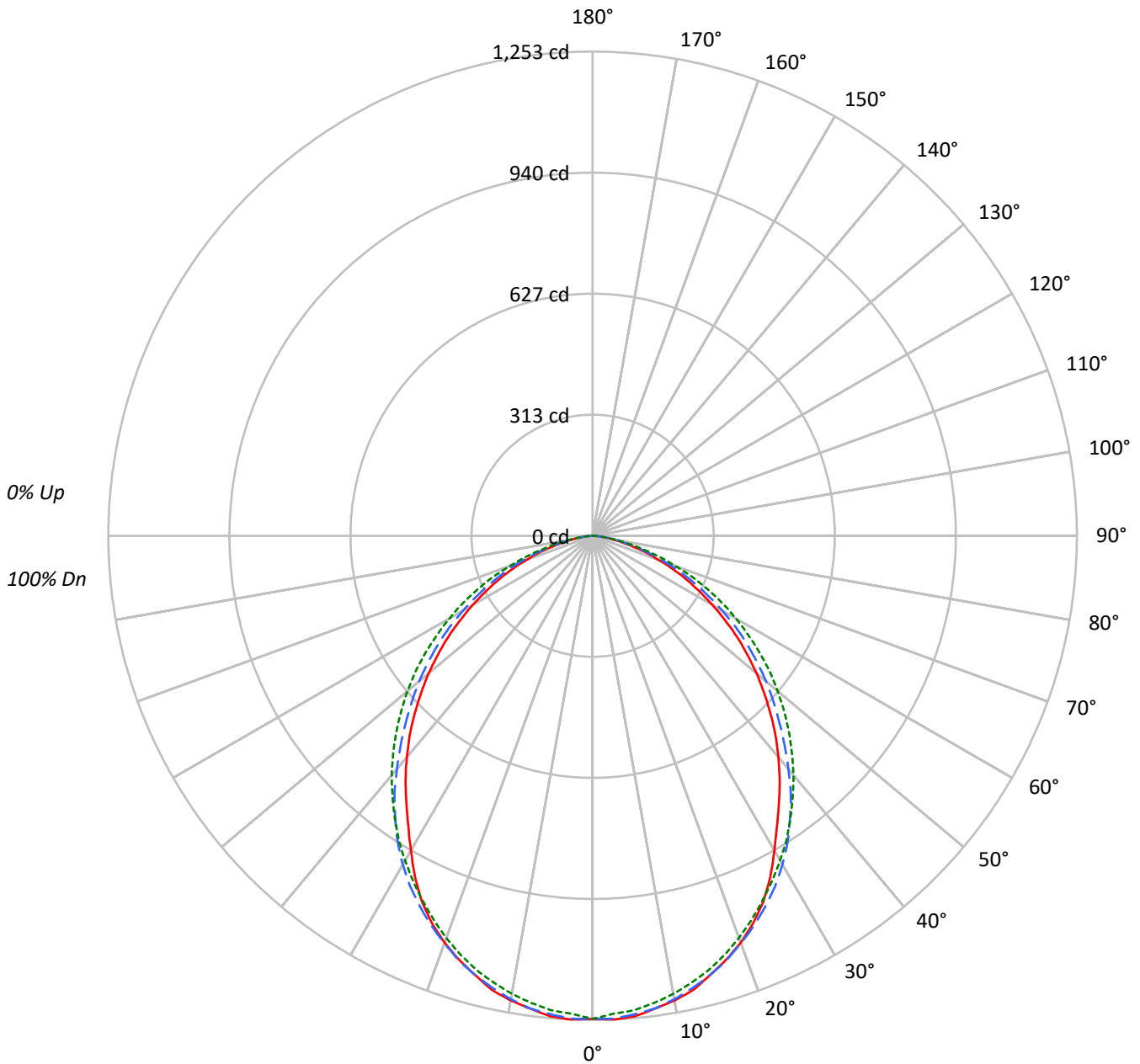
Lumens per Lamp: N/A
Luminaire Lumens: 2890.0 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	6727	6727	6727
5°	6745	6716	6659
10°	6673	6655	6579
15°	6555	6555	6479
20°	6416	6424	6341
25°	6204	6282	6182
30°	5842	6105	6031
35°	5521	5852	5861
40°	5252	5536	5681
45°	4952	5201	5467
50°	4635	4901	5235
55°	4276	4559	4951
60°	3850	4160	4605
65°	3400	3699	4188
70°	2834	3150	3559
75°	2227	2516	2786
80°	1593	1770	1965
85°	1037	1037	976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	4.1
10°-20°	330.6	11.4
20°-30°	483.1	16.7
30°-40°	548.4	19.0
40°-50°	529.4	18.3
50°-60°	436.7	15.1
60°-70°	290.8	10.1
70°-80°	130.1	4.5
80°-90°	23.3	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°	931.4	32.2
0°-40°	1479.7	51.2
0°-60°	2445.8	84.6
0°-90°	2890.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2890.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1250	1250	1250	1250	1250	
5°	1248	1248	1243	1236	1233	118
15°	1176	1179	1176	1171	1163	332
25°	1045	1053	1058	1050	1041	478
35°	840	852	891	896	892	526
45°	651	662	683	714	718	502
55°	456	463	486	513	528	407
65°	267	274	290	311	329	265
75°	107	113	121	127	134	117
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°	1249.9	1249.9	1249.9	1249.9	1249.9
2.5°	1253.2	1253.7	1250.8	1243.1	1238.3
5°	1248.4	1247.9	1243.1	1236.4	1232.6
7.5°	1234.5	1235.4	1234.0	1224.4	1219.1
10°	1221.0	1221.5	1217.7	1210.0	1203.8
12.5°	1203.8	1203.3	1198.0	1194.2	1184.1
15°	1176.4	1179.3	1176.4	1171.1	1162.9
17.5°	1150.0	1150.0	1151.9	1142.8	1136.5
20°	1120.2	1121.6	1121.6	1114.4	1107.2
22.5°	1085.6	1090.0	1091.4	1083.7	1075.1
25°	1044.8	1053.0	1057.8	1050.1	1041.0
27.5°	995.4	1007.9	1022.3	1016.5	1006.4
30°	940.1	958.4	982.4	977.6	970.4
32.5°	887.8	906.1	939.2	937.3	933.4
35°	840.3	851.8	890.7	895.5	892.1
37.5°	795.1	805.7	842.2	853.2	850.4
40°	747.6	759.1	787.9	807.6	808.6
42.5°	700.6	711.6	735.1	763.5	763.5
45°	650.6	661.7	683.3	714.5	718.3
47.5°	601.6	613.2	634.3	665.5	671.7
50°	553.6	564.2	585.3	615.6	625.2
52.5°	503.7	515.2	535.9	563.7	577.6
55°	455.7	463.4	485.9	512.8	527.7
57.5°	405.7	412.9	438.4	461.4	476.8
60°	357.7	366.8	386.5	410.1	427.8
62.5°	311.6	321.2	338.0	358.7	378.8
65°	267.0	274.2	290.5	311.1	328.9
67.5°	223.8	230.0	246.3	260.7	279.5
70°	180.1	188.2	200.2	214.2	226.2
72.5°	145.0	148.4	158.5	168.5	181.0
75°	107.1	112.8	121.0	126.8	134.0
77.5°	76.8	80.2	85.0	89.8	96.5
80°	51.4	52.8	57.1	58.1	63.4
82.5°	31.2	32.2	33.1	33.6	35.5
85°	16.8	16.8	16.8	15.8	15.8
87.5°	9.6	9.6	8.2	6.7	4.8
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)