

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: P555210

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-81-94-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: P555210
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-35-UNV-81-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

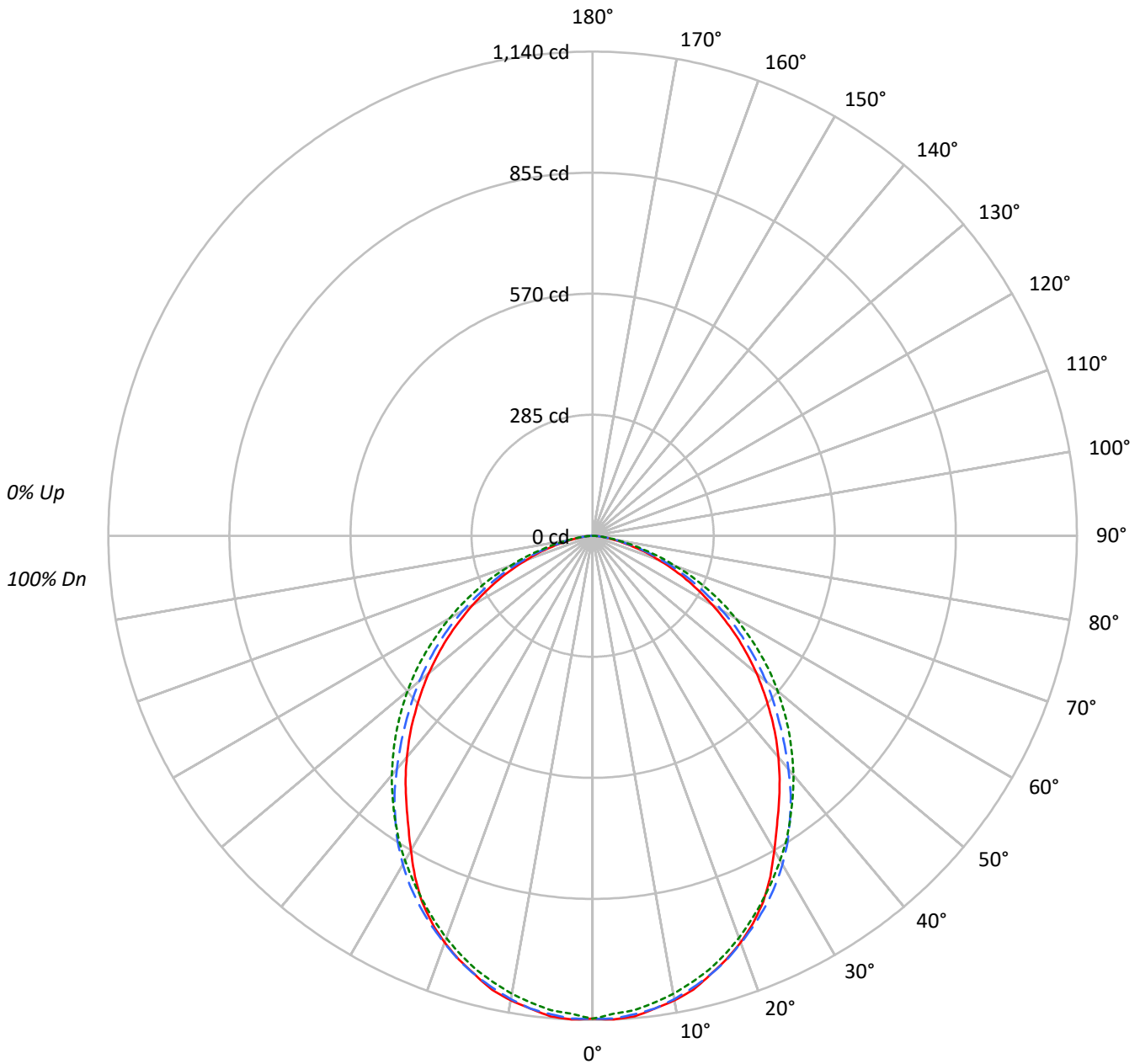
Lumens per Lamp: N/A
Luminaire Lumens: 2629.0 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (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°	6119	6119	6119
5°	6136	6110	6058
10°	6071	6054	5984
15°	5962	5962	5894
20°	5836	5844	5769
25°	5644	5714	5624
30°	5315	5554	5486
35°	5022	5324	5332
40°	4778	5036	5168
45°	4505	4731	4973
50°	4217	4459	4762
55°	3889	4147	4504
60°	3503	3785	4189
65°	3093	3366	3810
70°	2578	2865	3237
75°	2025	2289	2535
80°	1447	1612	1788
85°	945	945	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	4.1
10°-20°	300.7	11.4
20°-30°	439.5	16.7
30°-40°	498.8	19.0
40°-50°	481.6	18.3
50°-60°	397.3	15.1
60°-70°	264.5	10.1
70°-80°	118.4	4.5
80°-90°	21.2	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°	847.2	32.2
0°-40°	1346.1	51.2
0°-60°	2224.9	84.6
0°-90°	2629.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2629.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1137	1137	1137	1137	1137	
5°	1136	1135	1131	1125	1121	107
15°	1070	1073	1070	1065	1058	302
25°	950	958	962	955	947	435
35°	764	775	810	815	812	479
45°	592	602	622	650	653	457
55°	414	422	442	466	480	370
65°	243	249	264	283	299	241
75°	97	103	110	115	122	107
85°	15	15	15	14	14	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1137.0	1137.0	1137.0	1137.0	1137.0
2.5°	1140.0	1140.5	1137.8	1130.9	1126.5
5°	1135.7	1135.2	1130.9	1124.7	1121.3
7.5°	1123.0	1123.9	1122.6	1113.8	1109.0
10°	1110.8	1111.2	1107.7	1100.7	1095.0
12.5°	1095.0	1094.6	1089.8	1086.3	1077.1
15°	1070.1	1072.8	1070.1	1065.3	1057.9
17.5°	1046.1	1046.1	1047.9	1039.6	1033.9
20°	1019.0	1020.4	1020.4	1013.8	1007.2
22.5°	987.6	991.5	992.8	985.8	978.0
25°	950.5	957.9	962.3	955.3	947.0
27.5°	905.5	916.8	929.9	924.7	915.5
30°	855.2	871.8	893.7	889.3	882.8
32.5°	807.6	824.2	854.4	852.6	849.1
35°	764.4	774.9	810.3	814.6	811.6
37.5°	723.3	732.9	766.1	776.2	773.6
40°	680.1	690.6	716.8	734.7	735.6
42.5°	637.3	647.3	668.7	694.5	694.5
45°	591.9	601.9	621.6	649.9	653.4
47.5°	547.3	557.8	577.0	605.4	611.1
50°	503.6	513.2	532.5	560.0	568.7
52.5°	458.2	468.7	487.5	512.8	525.5
55°	414.5	421.5	442.0	466.5	480.0
57.5°	369.1	375.6	398.8	419.8	433.7
60°	325.4	333.7	351.6	373.0	389.2
62.5°	283.5	292.2	307.5	326.3	344.6
65°	242.9	249.4	264.3	283.0	299.2
67.5°	203.5	209.2	224.1	237.2	254.2
70°	163.8	171.2	182.1	194.8	205.7
72.5°	131.9	135.0	144.1	153.3	164.7
75°	97.4	102.6	110.1	115.3	121.9
77.5°	69.9	72.9	77.3	81.7	87.8
80°	46.7	48.0	52.0	52.9	57.7
82.5°	28.4	29.3	30.1	30.6	32.3
85°	15.3	15.3	15.3	14.4	14.4
87.5°	8.7	8.7	7.4	6.1	4.4
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)