

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: P555219

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-82-85-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: P555219
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-82-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

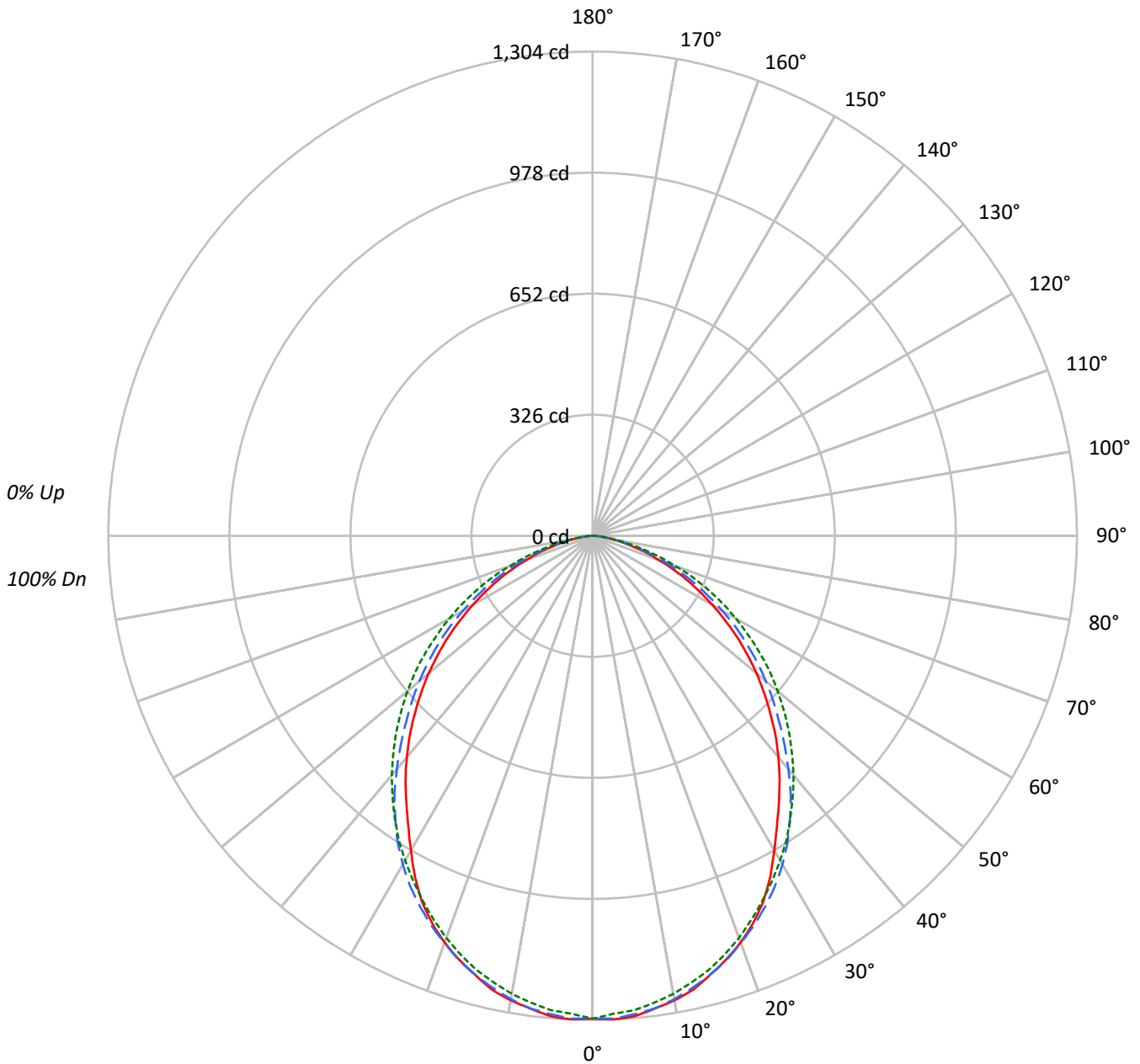
Lumens per Lamp: N/A
Luminaire Lumens: 3007.0 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	6999	6999	6999
5°	7018	6988	6929
10°	6943	6924	6845
15°	6820	6820	6742
20°	6676	6684	6598
25°	6456	6536	6432
30°	6079	6353	6275
35°	5744	6089	6099
40°	5465	5760	5911
45°	5153	5411	5689
50°	4823	5099	5447
55°	4449	4744	5152
60°	4006	4329	4791
65°	3538	3850	4358
70°	2947	3278	3703
75°	2316	2618	2899
80°	1658	1844	2042
85°	1081	1081	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.4	4.1
10°-20°	344.0	11.4
20°-30°	502.7	16.7
30°-40°	570.6	19.0
40°-50°	550.8	18.3
50°-60°	454.4	15.1
60°-70°	302.6	10.1
70°-80°	135.4	4.5
80°-90°	24.2	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°	969.1	32.2
0°-40°	1539.6	51.2
0°-60°	2544.8	84.6
0°-90°	3007.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3007.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1300	1300	1300	1300	1300	
5°	1299	1298	1294	1286	1282	123
15°	1224	1227	1224	1218	1210	345
25°	1087	1096	1101	1093	1083	498
35°	874	886	927	932	928	548
45°	677	688	711	743	747	522
55°	474	482	506	534	549	423
65°	278	285	302	324	342	275
75°	111	117	126	132	139	122
85°	18	18	18	16	16	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1300.4	1300.4	1300.4	1300.4	1300.4
2.5°	1303.9	1304.4	1301.4	1293.5	1288.5
5°	1299.0	1298.5	1293.5	1286.5	1282.5
7.5°	1284.5	1285.5	1284.0	1274.0	1268.5
10°	1270.5	1271.0	1267.0	1259.0	1252.5
12.5°	1252.5	1252.0	1246.5	1242.5	1232.0
15°	1224.0	1227.0	1224.0	1218.5	1210.0
17.5°	1196.5	1196.5	1198.5	1189.0	1182.5
20°	1165.6	1167.1	1167.1	1159.6	1152.1
22.5°	1129.6	1134.1	1135.6	1127.6	1118.6
25°	1087.1	1095.6	1100.6	1092.6	1083.1
27.5°	1035.7	1048.7	1063.6	1057.6	1047.2
30°	978.2	997.2	1022.2	1017.2	1009.7
32.5°	923.8	942.7	977.2	975.2	971.2
35°	874.3	886.3	926.8	931.7	928.3
37.5°	827.3	838.3	876.3	887.8	884.8
40°	777.9	789.9	819.8	840.3	841.3
42.5°	728.9	740.4	764.9	794.4	794.4
45°	677.0	688.4	710.9	743.4	747.4
47.5°	626.0	638.0	660.0	692.4	698.9
50°	576.0	587.0	609.0	640.5	650.5
52.5°	524.1	536.1	557.5	586.5	601.0
55°	474.1	482.1	505.6	533.6	549.1
57.5°	422.2	429.7	456.1	480.1	496.1
60°	372.2	381.7	402.2	426.7	445.1
62.5°	324.2	334.2	351.7	373.2	394.2
65°	277.8	285.3	302.3	323.7	342.2
67.5°	232.8	239.3	256.3	271.3	290.8
70°	187.3	195.8	208.3	222.8	235.3
72.5°	150.9	154.4	164.9	175.4	188.3
75°	111.4	117.4	125.9	131.9	139.4
77.5°	79.9	83.4	88.4	93.4	100.4
80°	53.5	55.0	59.5	60.5	65.9
82.5°	32.5	33.5	34.5	35.0	37.0
85°	17.5	17.5	17.5	16.5	16.5
87.5°	10.0	10.0	8.5	7.0	5.0
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)