

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: P555201

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-81-84-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: P555201
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-81-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

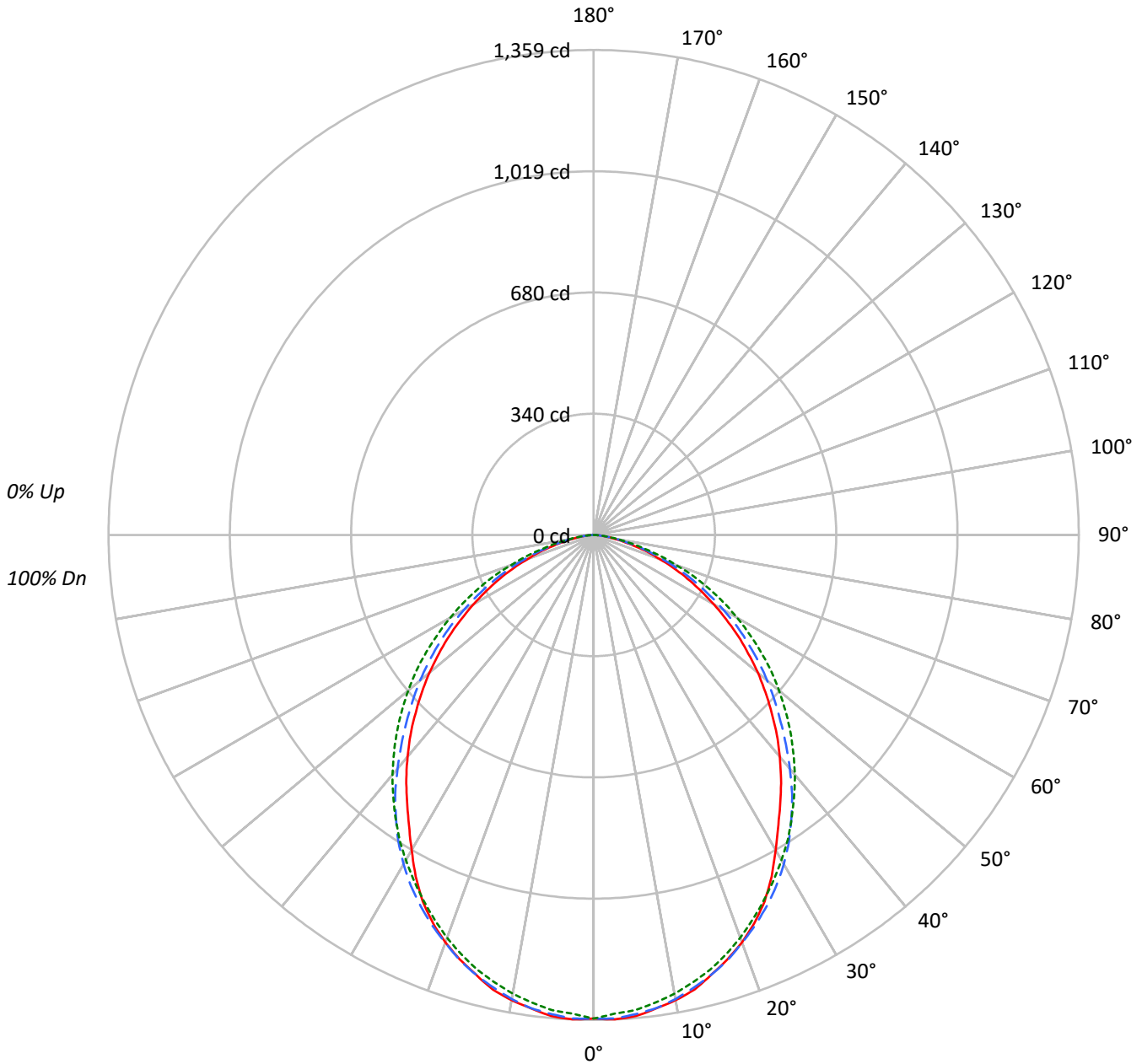
Lumens per Lamp: N/A
Luminaire Lumens: 3134.0 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7295	7295	7295
5°	7314	7283	7221
10°	7236	7217	7134
15°	7108	7108	7027
20°	6958	6966	6877
25°	6728	6812	6704
30°	6336	6620	6540
35°	5987	6346	6357
40°	5696	6003	6161
45°	5370	5640	5929
50°	5027	5314	5676
55°	4636	4944	5369
60°	4175	4512	4993
65°	3687	4011	4543
70°	3073	3416	3858
75°	2414	2728	3021
80°	1726	1922	2129
85°	1124	1124	1062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	4.1
10°-20°	358.5	11.4
20°-30°	523.9	16.7
30°-40°	594.7	19.0
40°-50°	574.1	18.3
50°-60°	473.6	15.1
60°-70°	315.3	10.1
70°-80°	141.1	4.5
80°-90°	25.2	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°	1010.0	32.2
0°-40°	1604.7	51.2
0°-60°	2652.3	84.6
0°-90°	3134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3134.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1355	1355	1355	1355	1355	
5°	1354	1353	1348	1341	1337	128
15°	1276	1279	1276	1270	1261	360
25°	1133	1142	1147	1139	1129	519
35°	911	924	966	971	968	571
45°	706	718	741	775	779	544
55°	494	502	527	556	572	441
65°	290	297	315	337	357	287
75°	116	122	131	138	145	127
85°	18	18	18	17	17	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1355.4	1355.4	1355.4	1355.4	1355.4
2.5°	1359.0	1359.5	1356.4	1348.1	1342.9
5°	1353.8	1353.3	1348.1	1340.8	1336.6
7.5°	1338.7	1339.8	1338.2	1327.8	1322.0
10°	1324.1	1324.7	1320.5	1312.2	1305.4
12.5°	1305.4	1304.9	1299.1	1295.0	1284.0
15°	1275.7	1278.8	1275.7	1270.0	1261.1
17.5°	1247.1	1247.1	1249.2	1239.3	1232.5
20°	1214.8	1216.3	1216.3	1208.5	1200.7
22.5°	1177.3	1182.0	1183.5	1175.2	1165.8
25°	1133.0	1141.9	1147.1	1138.8	1128.9
27.5°	1079.4	1092.9	1108.6	1102.3	1091.4
30°	1019.5	1039.3	1065.3	1060.1	1052.3
32.5°	962.8	982.6	1018.5	1016.4	1012.2
35°	911.2	923.7	965.9	971.1	967.5
37.5°	862.3	873.7	913.3	925.3	922.2
40°	810.7	823.2	854.5	875.8	876.9
42.5°	759.7	771.7	797.2	827.9	827.9
45°	705.5	717.5	741.0	774.8	779.0
47.5°	652.4	664.9	687.8	721.7	728.5
50°	600.4	611.8	634.7	667.5	677.9
52.5°	546.2	558.7	581.1	611.3	626.4
55°	494.1	502.5	526.9	556.1	572.2
57.5°	440.0	447.8	475.4	500.4	517.1
60°	387.9	397.8	419.2	444.7	463.9
62.5°	337.9	348.3	366.6	389.0	410.8
65°	289.5	297.3	315.0	337.4	356.7
67.5°	242.6	249.4	267.1	282.7	303.0
70°	195.3	204.1	217.1	232.2	245.2
72.5°	157.3	160.9	171.8	182.8	196.3
75°	116.1	122.4	131.2	137.5	145.3
77.5°	83.3	87.0	92.2	97.4	104.7
80°	55.7	57.3	62.0	63.0	68.7
82.5°	33.8	34.9	35.9	36.4	38.5
85°	18.2	18.2	18.2	17.2	17.2
87.5°	10.4	10.4	8.9	7.3	5.2
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)