

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: P555263

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-80-97-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: P555263
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-40-UNV-80-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

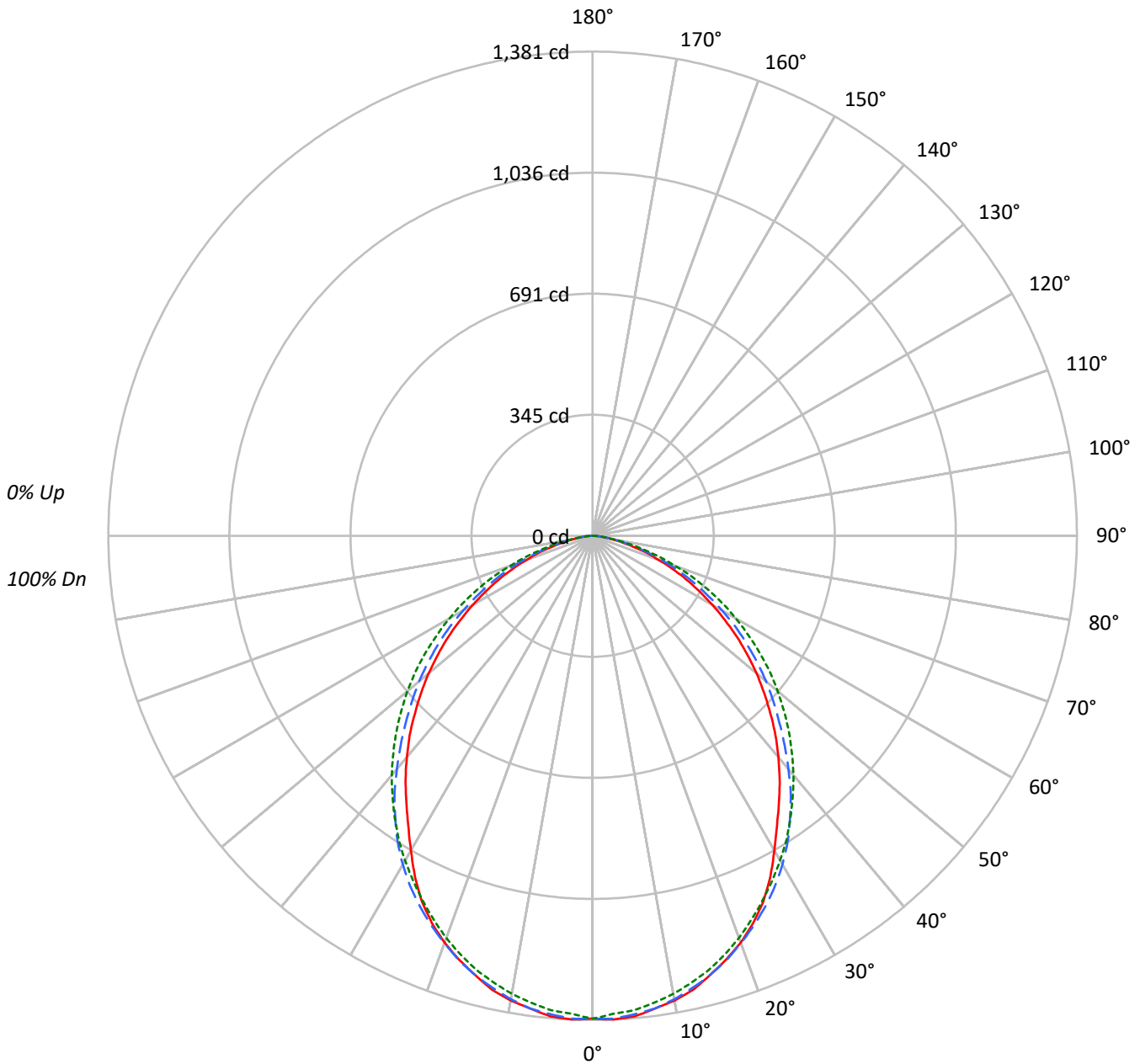
Lumens per Lamp: N/A
Luminaire Lumens: 3185.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7413	7413	7413
5°	7433	7401	7339
10°	7354	7334	7250
15°	7224	7224	7141
20°	7071	7080	6989
25°	6838	6923	6812
30°	6439	6728	6646
35°	6084	6449	6460
40°	5788	6101	6261
45°	5457	5731	6025
50°	5108	5401	5769
55°	4712	5025	5457
60°	4243	4585	5075
65°	3747	4076	4616
70°	3122	3473	3921
75°	2454	2774	3069
80°	1754	1953	2166
85°	1142	1142	1081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.7	4.1
10°-20°	364.3	11.4
20°-30°	532.4	16.7
30°-40°	604.3	19.0
40°-50°	583.4	18.3
50°-60°	481.3	15.1
60°-70°	320.5	10.1
70°-80°	143.4	4.5
80°-90°	25.7	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°	1026.4	32.2
0°-40°	1630.8	51.2
0°-60°	2695.4	84.6
0°-90°	3185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3185.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1377	1377	1377	1377	1377	
5°	1376	1375	1370	1363	1358	130
15°	1296	1300	1296	1291	1282	365
25°	1152	1160	1166	1157	1147	527
35°	926	939	982	987	983	580
45°	717	729	753	787	792	553
55°	502	511	536	565	582	448
65°	294	302	320	343	362	292
75°	118	124	133	140	148	129
85°	18	18	18	18	18	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1377.4	1377.4	1377.4	1377.4	1377.4
2.5°	1381.1	1381.7	1378.5	1370.0	1364.7
5°	1375.8	1375.3	1370.0	1362.6	1358.4
7.5°	1360.5	1361.6	1360.0	1349.4	1343.6
10°	1345.7	1346.2	1342.0	1333.5	1326.6
12.5°	1326.6	1326.1	1320.3	1316.0	1304.9
15°	1296.5	1299.6	1296.5	1290.6	1281.7
17.5°	1267.4	1267.4	1269.5	1259.4	1252.5
20°	1234.6	1236.1	1236.1	1228.2	1220.3
22.5°	1196.5	1201.2	1202.8	1194.3	1184.8
25°	1151.5	1160.5	1165.8	1157.3	1147.2
27.5°	1097.0	1110.7	1126.6	1120.3	1109.1
30°	1036.1	1056.2	1082.7	1077.4	1069.5
32.5°	978.4	998.5	1035.1	1032.9	1028.7
35°	926.0	938.7	981.6	986.9	983.2
37.5°	876.3	887.9	928.2	940.3	937.2
40°	823.9	836.6	868.4	890.1	891.1
42.5°	772.1	784.2	810.2	841.4	841.4
45°	717.0	729.2	753.0	787.4	791.6
47.5°	663.1	675.8	699.0	733.4	740.3
50°	610.1	621.8	645.1	678.4	689.0
52.5°	555.1	567.8	590.6	621.2	636.6
55°	502.2	510.6	535.5	565.2	581.6
57.5°	447.1	455.1	483.1	508.5	525.5
60°	394.2	404.3	426.0	451.9	471.5
62.5°	343.4	354.0	372.5	395.3	417.5
65°	294.2	302.2	320.1	342.9	362.5
67.5°	246.6	253.5	271.5	287.3	308.0
70°	198.4	207.4	220.7	236.0	249.2
72.5°	159.8	163.5	174.6	185.7	199.5
75°	118.0	124.4	133.4	139.7	147.6
77.5°	84.7	88.4	93.7	99.0	106.4
80°	56.6	58.2	63.0	64.0	69.9
82.5°	34.4	35.5	36.5	37.0	39.2
85°	18.5	18.5	18.5	17.5	17.5
87.5°	10.6	10.6	9.0	7.4	5.3
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)