

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: P554678

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-80-87-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: P554678
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-LD4-2HI-35-UNV-80-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

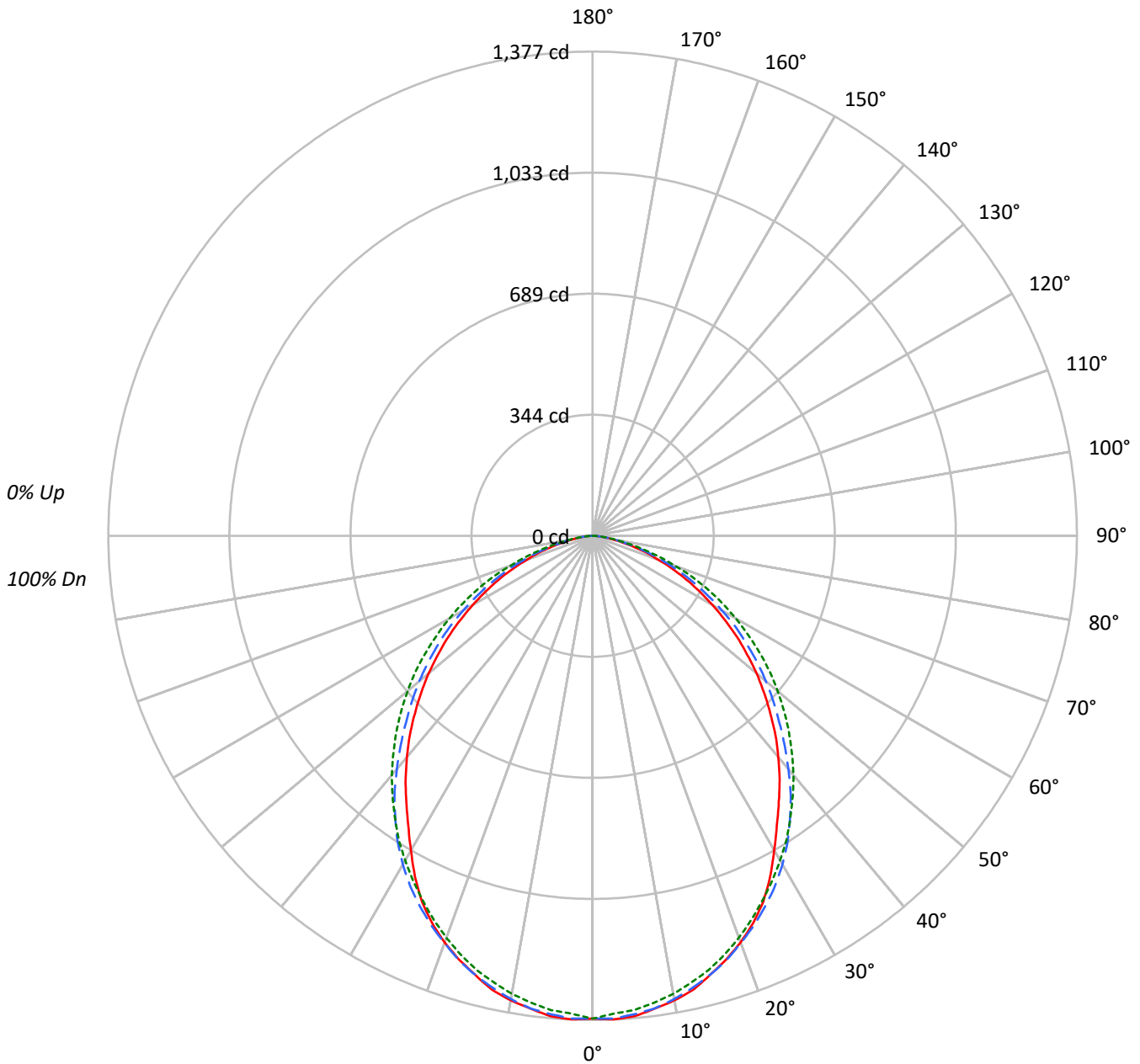
Lumens per Lamp: N/A
Luminaire Lumens: 3175.0 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	7390	7390	7390
5°	7410	7378	7316
10°	7331	7311	7227
15°	7201	7201	7119
20°	7049	7058	6967
25°	6817	6901	6791
30°	6419	6707	6625
35°	6065	6429	6439
40°	5770	6081	6241
45°	5441	5713	6007
50°	5092	5384	5750
55°	4697	5009	5439
60°	4230	4570	5059
65°	3735	4064	4601
70°	3113	3462	3910
75°	2445	2764	3061
80°	1748	1946	2157
85°	1142	1142	1074



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.3	4.1
10°-20°	363.2	11.4
20°-30°	530.7	16.7
30°-40°	602.5	19.0
40°-50°	581.6	18.3
50°-60°	479.7	15.1
60°-70°	319.5	10.1
70°-80°	143.0	4.5
80°-90°	25.6	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°	1023.2	32.2
0°-40°	1625.7	51.2
0°-60°	2687.0	84.6
0°-90°	3175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3175.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1373	1373	1373	1373	1373	
5°	1372	1371	1366	1358	1354	130
15°	1292	1296	1292	1287	1278	364
25°	1148	1157	1162	1154	1144	526
35°	923	936	978	984	980	578
45°	715	727	751	785	789	551
55°	501	509	534	563	580	447
65°	293	301	319	342	361	291
75°	118	124	133	139	147	129
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°	1373.1	1373.1	1373.1	1373.1	1373.1
2.5°	1376.8	1377.3	1374.2	1365.7	1360.4
5°	1371.5	1371.0	1365.7	1358.3	1354.1
7.5°	1356.2	1357.3	1355.7	1345.1	1339.3
10°	1341.5	1342.0	1337.8	1329.3	1322.5
12.5°	1322.5	1321.9	1316.1	1311.9	1300.8
15°	1292.4	1295.6	1292.4	1286.6	1277.6
17.5°	1263.4	1263.4	1265.5	1255.5	1248.6
20°	1230.7	1232.3	1232.3	1224.3	1216.4
22.5°	1192.7	1197.4	1199.0	1190.6	1181.1
25°	1147.9	1156.8	1162.1	1153.7	1143.6
27.5°	1093.5	1107.2	1123.1	1116.7	1105.7
30°	1032.9	1052.9	1079.3	1074.0	1066.1
32.5°	975.4	995.4	1031.8	1029.7	1025.5
35°	923.1	935.8	978.5	983.8	980.1
37.5°	873.6	885.2	925.3	937.4	934.2
40°	821.3	834.0	865.6	887.3	888.3
42.5°	769.6	781.8	807.6	838.7	838.7
45°	714.8	726.9	750.6	784.9	789.2
47.5°	661.0	673.6	696.8	731.1	738.0
50°	608.2	619.8	643.0	676.3	686.8
52.5°	553.4	566.0	588.7	619.3	634.6
55°	500.6	509.0	533.8	563.4	579.7
57.5°	445.7	453.7	481.6	506.9	523.8
60°	393.0	403.0	424.6	450.5	470.0
62.5°	342.4	352.9	371.4	394.0	416.2
65°	293.3	301.2	319.1	341.8	361.3
67.5°	245.8	252.7	270.6	286.4	307.0
70°	197.8	206.8	220.0	235.3	248.5
72.5°	159.3	163.0	174.1	185.2	198.9
75°	117.6	124.0	132.9	139.3	147.2
77.5°	84.4	88.1	93.4	98.6	106.0
80°	56.4	58.0	62.8	63.8	69.6
82.5°	34.3	35.3	36.4	36.9	39.0
85°	18.5	18.5	18.5	17.4	17.4
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)