

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: P554624

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-UNV-81-84-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: P554624
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-30-UNV-81-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

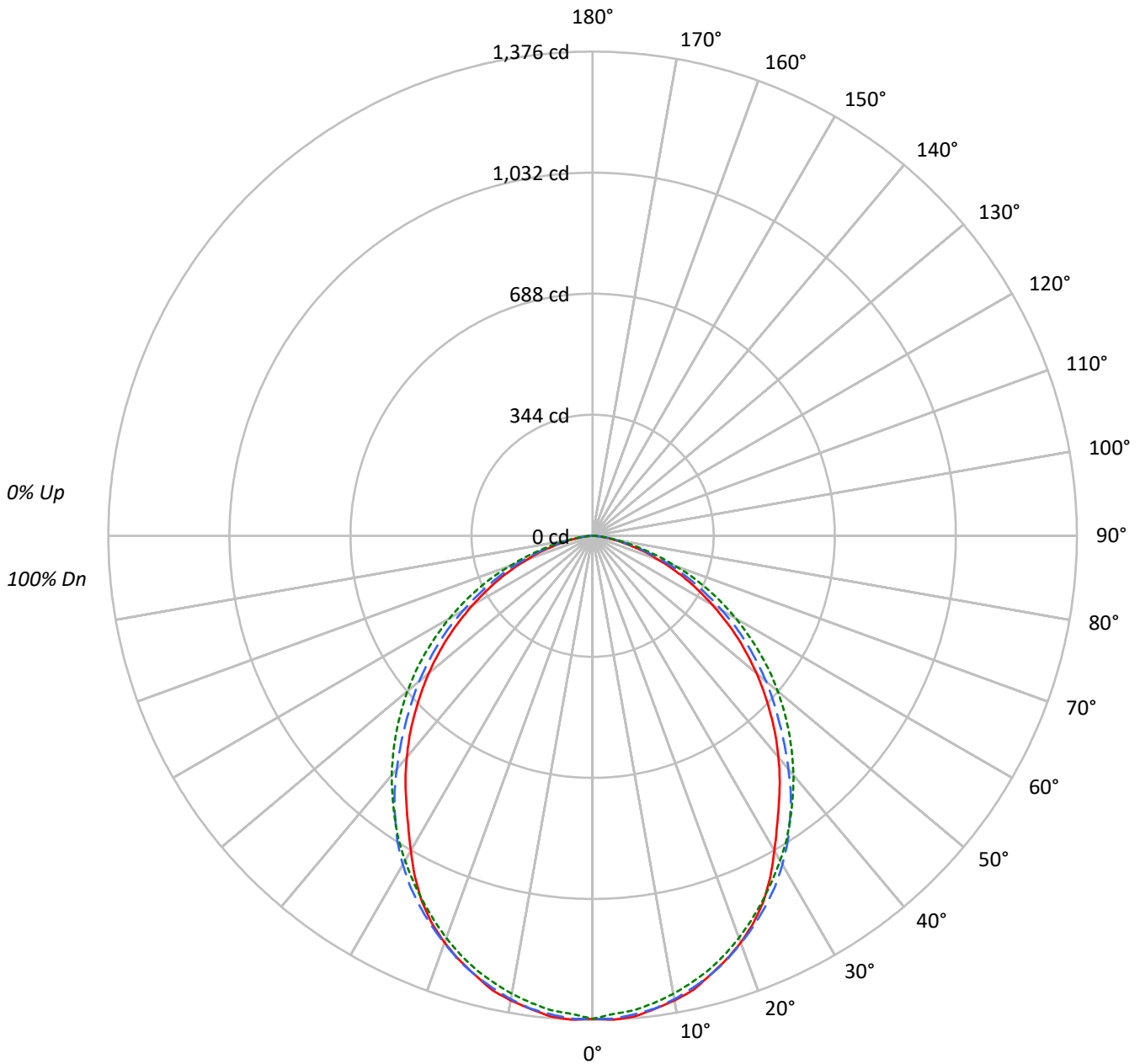
Lumens per Lamp: N/A
Luminaire Lumens: 3174.0 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7388	7388	7388
5°	7407	7376	7313
10°	7329	7308	7225
15°	7199	7199	7116
20°	7046	7056	6965
25°	6814	6899	6789
30°	6417	6705	6623
35°	6063	6427	6437
40°	5769	6080	6239
45°	5438	5711	6005
50°	5091	5382	5749
55°	4695	5008	5438
60°	4229	4569	5058
65°	3734	4062	4600
70°	3113	3460	3909
75°	2445	2764	3059
80°	1748	1946	2157
85°	1142	1142	1074



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	4.1
10°-20°	363.1	11.4
20°-30°	530.6	16.7
30°-40°	602.3	19.0
40°-50°	581.4	18.3
50°-60°	479.6	15.1
60°-70°	319.4	10.1
70°-80°	142.9	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°	1022.9	32.2
0°-40°	1625.2	51.2
0°-60°	2686.2	84.6
0°-90°	3174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3174.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1373	1373	1373	1373	1373	
5°	1371	1371	1365	1358	1354	130
15°	1292	1295	1292	1286	1277	364
25°	1148	1156	1162	1153	1143	525
35°	923	936	978	984	980	578
45°	714	727	750	785	789	551
55°	500	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°	1372.7	1372.7	1372.7	1372.7	1372.7
2.5°	1376.4	1376.9	1373.7	1365.3	1360.0
5°	1371.1	1370.6	1365.3	1357.9	1353.7
7.5°	1355.8	1356.9	1355.3	1344.7	1338.9
10°	1341.0	1341.6	1337.3	1328.9	1322.0
12.5°	1322.0	1321.5	1315.7	1311.5	1300.4
15°	1292.0	1295.2	1292.0	1286.2	1277.2
17.5°	1263.0	1263.0	1265.1	1255.1	1248.2
20°	1230.3	1231.9	1231.9	1224.0	1216.1
22.5°	1192.3	1197.1	1198.6	1190.2	1180.7
25°	1147.5	1156.5	1161.7	1153.3	1143.3
27.5°	1093.2	1106.9	1122.7	1116.4	1105.3
30°	1032.5	1052.6	1078.9	1073.7	1065.8
32.5°	975.1	995.1	1031.5	1029.4	1025.2
35°	922.8	935.5	978.2	983.5	979.8
37.5°	873.3	884.9	925.0	937.1	933.9
40°	821.1	833.7	865.4	887.0	888.0
42.5°	769.4	781.5	807.4	838.5	838.5
45°	714.5	726.7	750.4	784.7	788.9
47.5°	660.8	673.4	696.6	730.9	737.8
50°	608.0	619.6	642.8	676.1	686.6
52.5°	553.2	565.8	588.5	619.1	634.4
55°	500.4	508.9	533.7	563.2	579.5
57.5°	445.6	453.5	481.5	506.8	523.7
60°	392.9	402.9	424.5	450.4	469.9
62.5°	342.2	352.8	371.2	393.9	416.1
65°	293.2	301.1	319.0	341.7	361.2
67.5°	245.7	252.6	270.5	286.3	306.9
70°	197.8	206.7	219.9	235.2	248.4
72.5°	159.3	162.9	174.0	185.1	198.8
75°	117.6	123.9	132.9	139.2	147.1
77.5°	84.4	88.1	93.3	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°	10.5	10.5	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)