

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: P554834

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-UNV-82-85-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: P554834
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-50-UNV-82-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

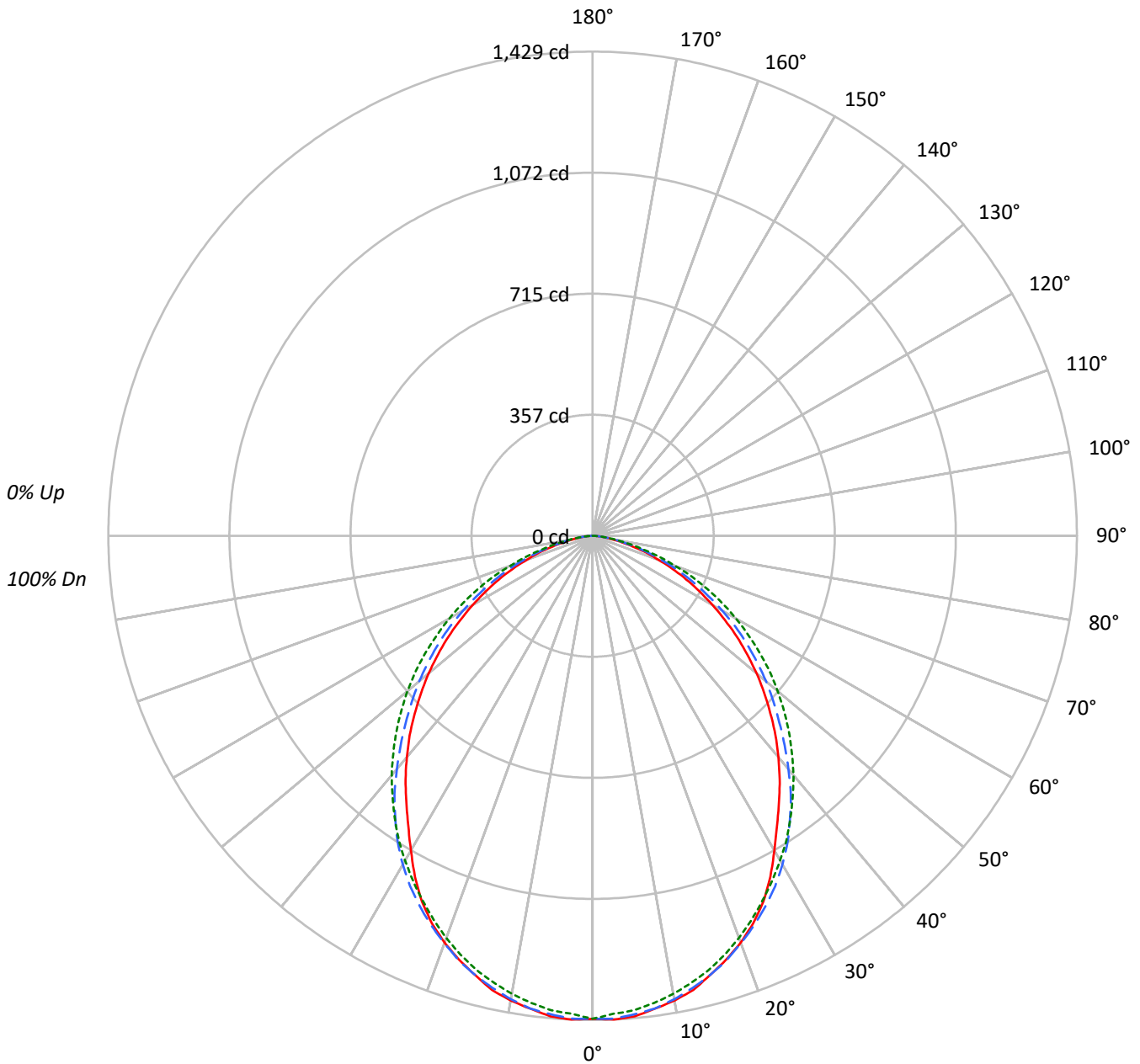
Lumens per Lamp: N/A
Luminaire Lumens: 3296.0 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	7671	7671	7671
5°	7692	7660	7594
10°	7611	7589	7503
15°	7476	7476	7390
20°	7317	7326	7233
25°	7076	7164	7050
30°	6663	6963	6878
35°	6296	6674	6685
40°	5990	6313	6479
45°	5648	5931	6235
50°	5287	5589	5970
55°	4876	5200	5647
60°	4392	4745	5252
65°	3878	4219	4777
70°	3232	3594	4058
75°	2539	2870	3177
80°	1816	2021	2241
85°	1186	1186	1118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.2	4.1
10°-20°	377.0	11.4
20°-30°	551.0	16.7
30°-40°	625.4	19.0
40°-50°	603.7	18.3
50°-60°	498.0	15.1
60°-70°	331.7	10.1
70°-80°	148.4	4.5
80°-90°	26.6	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°	1062.2	32.2
0°-40°	1687.6	51.2
0°-60°	2789.4	84.6
0°-90°	3296.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3296.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1425	1425	1425	1425	1425	
5°	1424	1423	1418	1410	1406	135
15°	1342	1345	1342	1336	1326	378
25°	1192	1201	1206	1198	1187	546
35°	958	972	1016	1021	1018	600
45°	742	755	779	815	819	573
55°	520	528	554	585	602	464
65°	304	313	331	355	375	302
75°	122	129	138	145	153	134
85°	19	19	19	18	18	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1425.4	1425.4	1425.4	1425.4	1425.4
2.5°	1429.3	1429.8	1426.5	1417.8	1412.3
5°	1423.8	1423.2	1417.8	1410.1	1405.7
7.5°	1407.9	1409.0	1407.4	1396.4	1390.4
10°	1392.6	1393.1	1388.7	1380.0	1372.9
12.5°	1372.9	1372.3	1366.3	1361.9	1350.4
15°	1341.7	1344.9	1341.7	1335.6	1326.3
17.5°	1311.5	1311.5	1313.7	1303.3	1296.2
20°	1277.6	1279.2	1279.2	1271.0	1262.8
22.5°	1238.2	1243.1	1244.7	1236.0	1226.1
25°	1191.6	1200.9	1206.4	1197.6	1187.2
27.5°	1135.2	1149.4	1165.9	1159.3	1147.8
30°	1072.2	1093.0	1120.4	1114.9	1106.7
32.5°	1012.5	1033.3	1071.1	1068.9	1064.6
35°	958.3	971.5	1015.8	1021.3	1017.5
37.5°	906.8	918.9	960.5	973.1	969.8
40°	852.6	865.8	898.6	921.1	922.2
42.5°	799.0	811.6	838.4	870.7	870.7
45°	742.0	754.6	779.3	814.8	819.2
47.5°	686.2	699.3	723.4	759.0	766.1
50°	631.4	643.4	667.5	702.0	713.0
52.5°	574.4	587.6	611.1	642.9	658.8
55°	519.7	528.4	554.2	584.8	601.8
57.5°	462.7	470.9	500.0	526.3	543.8
60°	408.0	418.4	440.8	467.7	487.9
62.5°	355.4	366.4	385.5	409.1	432.1
65°	304.5	312.7	331.3	354.9	375.1
67.5°	255.2	262.3	280.9	297.4	318.7
70°	205.4	214.7	228.4	244.2	257.9
72.5°	165.4	169.2	180.7	192.2	206.4
75°	122.1	128.7	138.0	144.6	152.8
77.5°	87.6	91.5	96.9	102.4	110.1
80°	58.6	60.2	65.2	66.3	72.3
82.5°	35.6	36.7	37.8	38.3	40.5
85°	19.2	19.2	19.2	18.1	18.1
87.5°	11.0	11.0	9.3	7.7	5.5
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)