

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: P554698

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-81-94-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: P554698
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-81-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

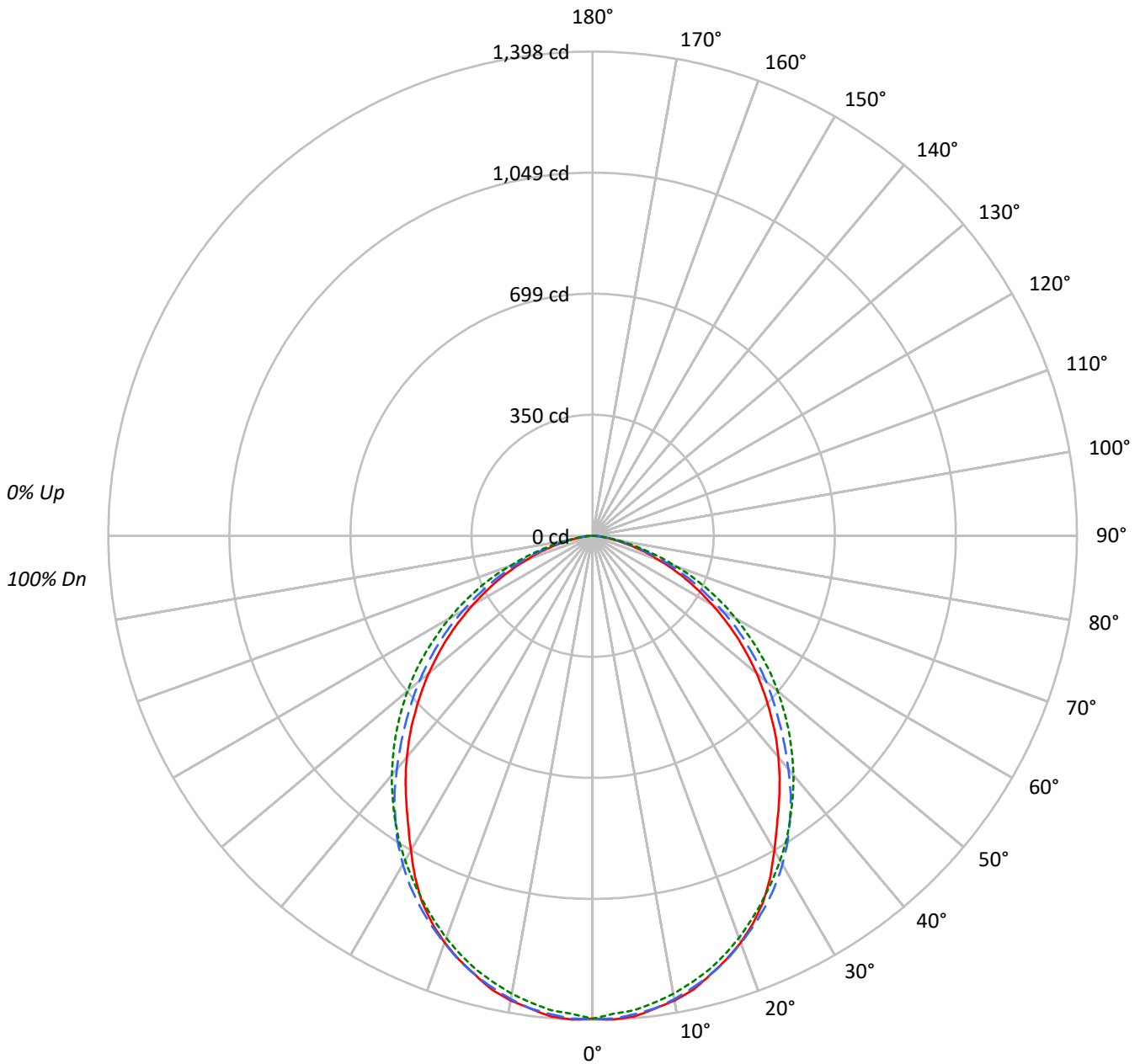
Lumens per Lamp: N/A
Luminaire Lumens: 3224.0 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	7504	7504	7504
5°	7524	7492	7428
10°	7444	7424	7339
15°	7312	7312	7228
20°	7157	7167	7074
25°	6922	7007	6896
30°	6518	6811	6727
35°	6159	6528	6539
40°	5859	6176	6337
45°	5524	5801	6099
50°	5171	5467	5839
55°	4769	5087	5524
60°	4296	4641	5138
65°	3792	4127	4672
70°	3161	3515	3970
75°	2483	2807	3107
80°	1776	1974	2191
85°	1155	1155	1093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	4.1
10°-20°	368.8	11.4
20°-30°	538.9	16.7
30°-40°	611.7	19.0
40°-50°	590.5	18.3
50°-60°	487.2	15.1
60°-70°	324.4	10.1
70°-80°	145.2	4.5
80°-90°	26.0	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°	1039.0	32.2
0°-40°	1650.7	51.2
0°-60°	2728.4	84.6
0°-90°	3224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3224.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1394	1394	1394	1394	1394	
5°	1393	1392	1387	1379	1375	132
15°	1312	1316	1312	1306	1297	370
25°	1166	1175	1180	1172	1161	534
35°	937	950	994	999	995	587
45°	726	738	762	797	801	560
55°	508	517	542	572	589	454
65°	298	306	324	347	367	295
75°	119	126	135	141	149	131
85°	19	19	19	18	18	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1394.3	1394.3	1394.3	1394.3	1394.3
2.5°	1398.0	1398.6	1395.4	1386.8	1381.4
5°	1392.7	1392.2	1386.8	1379.3	1375.0
7.5°	1377.2	1378.2	1376.6	1365.9	1360.0
10°	1362.2	1362.7	1358.4	1349.8	1342.9
12.5°	1342.9	1342.3	1336.4	1332.2	1320.9
15°	1312.3	1315.6	1312.3	1306.5	1297.3
17.5°	1282.9	1282.9	1285.0	1274.8	1267.9
20°	1249.7	1251.3	1251.3	1243.2	1235.2
22.5°	1211.1	1215.9	1217.5	1209.0	1199.3
25°	1165.6	1174.7	1180.0	1171.5	1161.3
27.5°	1110.4	1124.3	1140.4	1134.0	1122.7
30°	1048.8	1069.2	1095.9	1090.6	1082.5
32.5°	990.4	1010.8	1047.7	1045.6	1041.3
35°	937.4	950.2	993.6	999.0	995.2
37.5°	887.0	898.8	939.5	951.8	948.6
40°	834.0	846.9	879.0	901.0	902.0
42.5°	781.5	793.8	820.1	851.7	851.7
45°	725.8	738.1	762.2	797.0	801.3
47.5°	671.2	684.0	707.6	742.4	749.4
50°	617.6	629.4	653.0	686.7	697.4
52.5°	561.9	574.8	597.8	628.9	644.4
55°	508.3	516.9	542.1	572.1	588.7
57.5°	452.6	460.7	489.0	514.8	531.9
60°	399.1	409.2	431.2	457.4	477.3
62.5°	347.6	358.3	377.1	400.1	422.6
65°	297.8	305.9	324.1	347.1	366.9
67.5°	249.6	256.6	274.8	290.9	311.7
70°	200.9	210.0	223.4	238.9	252.3
72.5°	161.8	165.5	176.8	188.0	201.9
75°	119.4	125.9	135.0	141.4	149.4
77.5°	85.7	89.5	94.8	100.2	107.7
80°	57.3	58.9	63.7	64.8	70.7
82.5°	34.8	35.9	37.0	37.5	39.6
85°	18.7	18.7	18.7	17.7	17.7
87.5°	10.7	10.7	9.1	7.5	5.4
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)