

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: P555842

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-81-85-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: P555842
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-LD4-3LO-50-UNV-81-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 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

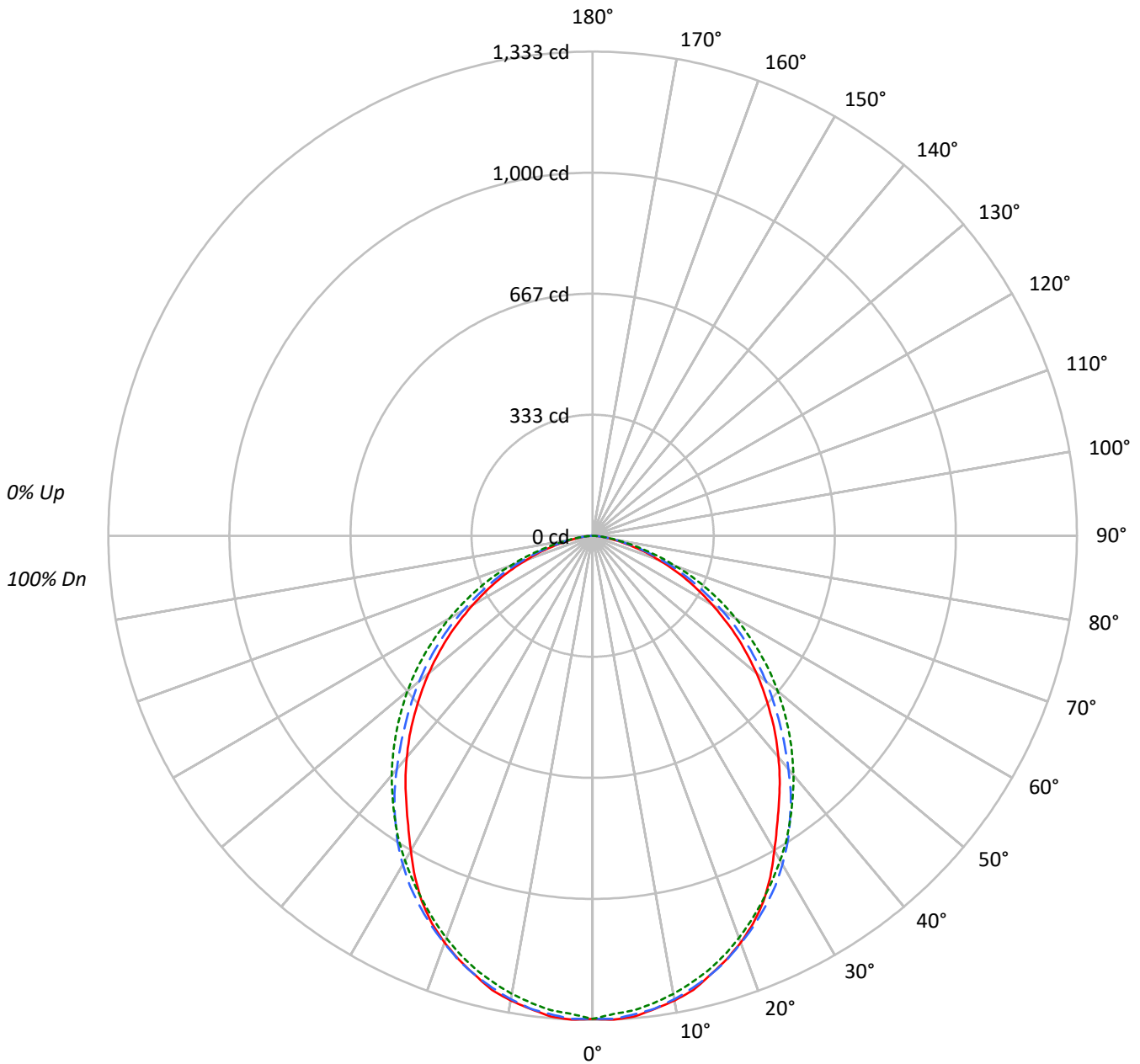
Lumens per Lamp: N/A
Luminaire Lumens: 3075.0 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	7157	7157	7157
5°	7176	7146	7085
10°	7100	7080	7000
15°	6974	6974	6895
20°	6826	6835	6747
25°	6602	6684	6577
30°	6216	6496	6417
35°	5874	6227	6236
40°	5589	5890	6044
45°	5269	5533	5817
50°	4932	5215	5570
55°	4549	4851	5269
60°	4097	4427	4900
65°	3618	3936	4457
70°	3015	3352	3786
75°	2368	2676	2963
80°	1695	1884	2089
85°	1105	1105	1044



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	4.1
10°-20°	351.8	11.4
20°-30°	514.0	16.7
30°-40°	583.5	19.0
40°-50°	563.3	18.3
50°-60°	464.6	15.1
60°-70°	309.4	10.1
70°-80°	138.5	4.5
80°-90°	24.8	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°	991.0	32.2
0°-40°	1574.5	51.2
0°-60°	2602.4	84.6
0°-90°	3075.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3075.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1330	1330	1330	1330	1330	
5°	1328	1328	1323	1316	1312	126
15°	1252	1255	1252	1246	1237	353
25°	1112	1120	1126	1117	1108	509
35°	894	906	948	953	949	560
45°	692	704	727	760	764	534
55°	485	493	517	546	562	433
65°	284	292	309	331	350	282
75°	114	120	129	135	142	125
85°	18	18	18	17	17	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1329.9	1329.9	1329.9	1329.9	1329.9
2.5°	1333.4	1333.9	1330.9	1322.7	1317.6
5°	1328.3	1327.8	1322.7	1315.6	1311.5
7.5°	1313.5	1314.5	1313.0	1302.8	1297.2
10°	1299.2	1299.7	1295.6	1287.5	1280.8
12.5°	1280.8	1280.3	1274.7	1270.6	1259.9
15°	1251.7	1254.8	1251.7	1246.1	1237.4
17.5°	1223.6	1223.6	1225.6	1215.9	1209.3
20°	1191.9	1193.4	1193.4	1185.8	1178.1
22.5°	1155.1	1159.7	1161.3	1153.1	1143.9
25°	1111.7	1120.4	1125.5	1117.3	1107.6
27.5°	1059.1	1072.4	1087.7	1081.6	1070.8
30°	1000.3	1019.7	1045.3	1040.2	1032.5
32.5°	944.6	964.1	999.3	997.3	993.2
35°	894.1	906.3	947.7	952.8	949.2
37.5°	846.0	857.3	896.1	907.9	904.8
40°	795.5	807.7	838.4	859.3	860.3
42.5°	745.4	757.1	782.2	812.3	812.3
45°	692.3	704.0	727.0	760.2	764.3
47.5°	640.2	652.4	674.9	708.1	714.7
50°	589.1	600.3	622.8	655.0	665.2
52.5°	535.9	548.2	570.2	599.8	614.6
55°	484.8	493.0	517.0	545.6	561.5
57.5°	431.7	439.4	466.4	491.0	507.3
60°	380.6	390.3	411.3	436.3	455.2
62.5°	331.6	341.8	359.7	381.6	403.1
65°	284.1	291.7	309.1	331.1	350.0
67.5°	238.1	244.7	262.1	277.4	297.3
70°	191.6	200.3	213.0	227.9	240.6
72.5°	154.3	157.9	168.6	179.3	192.6
75°	113.9	120.1	128.7	134.9	142.5
77.5°	81.7	85.3	90.4	95.5	102.7
80°	54.7	56.2	60.8	61.8	67.4
82.5°	33.2	34.2	35.3	35.8	37.8
85°	17.9	17.9	17.9	16.9	16.9
87.5°	10.2	10.2	8.7	7.2	5.1
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)