

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: P555992

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-82-88-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: P555992
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-LD4-3STD-35-UNV-82-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

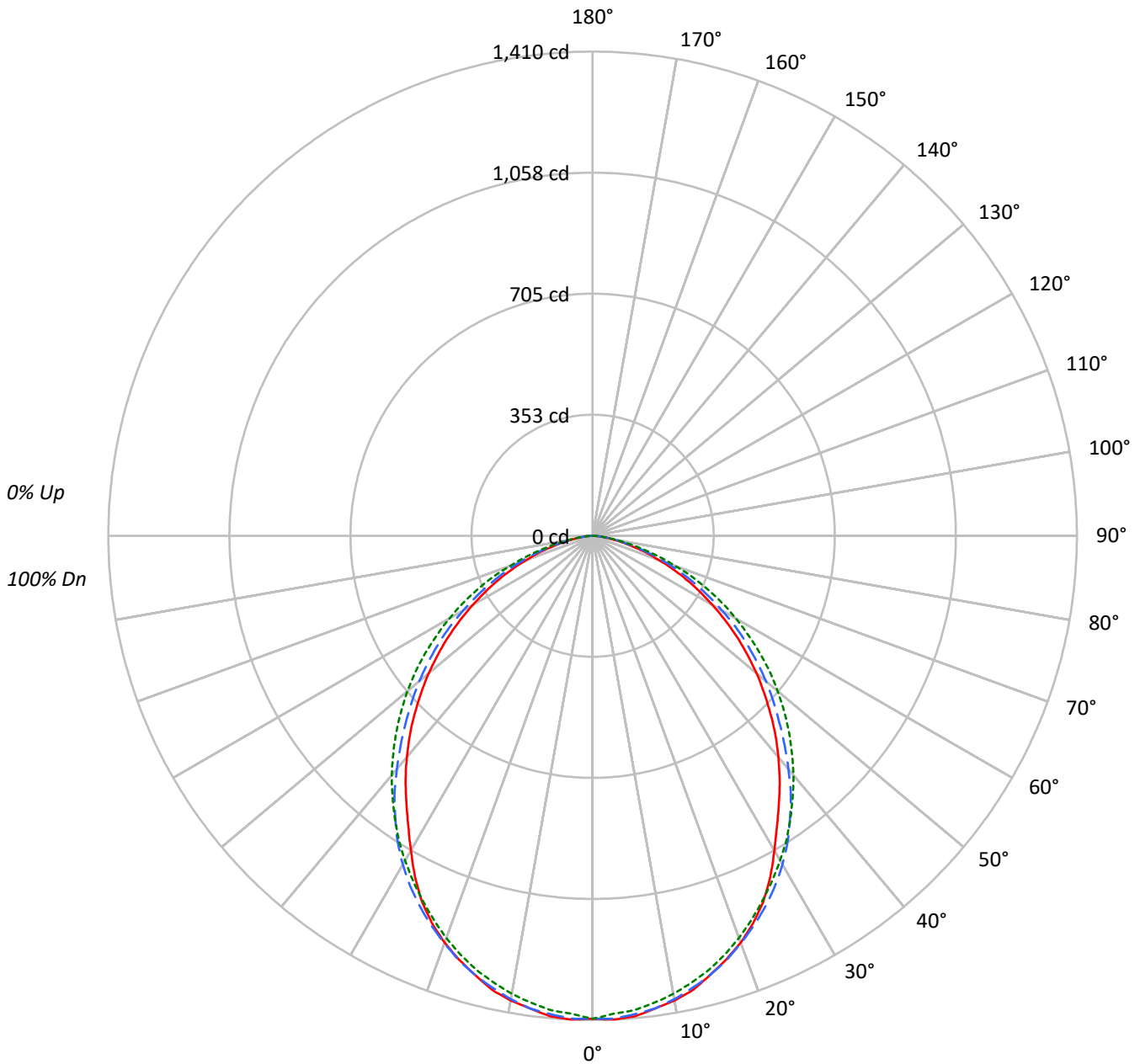
Lumens per Lamp: N/A
Luminaire Lumens: 3252.0 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	7569	7569	7569
5°	7589	7557	7493
10°	7509	7488	7402
15°	7375	7375	7291
20°	7219	7229	7136
25°	6982	7068	6956
30°	6574	6870	6786
35°	6212	6585	6596
40°	5911	6229	6393
45°	5572	5852	6152
50°	5216	5514	5890
55°	4811	5131	5572
60°	4332	4681	5182
65°	3826	4163	4713
70°	3188	3545	4005
75°	2506	2832	3134
80°	1791	1993	2210
85°	1167	1167	1099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	4.1
10°-20°	372.0	11.4
20°-30°	543.6	16.7
30°-40°	617.1	19.0
40°-50°	595.7	18.3
50°-60°	491.4	15.1
60°-70°	327.2	10.1
70°-80°	146.4	4.5
80°-90°	26.2	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°	1048.0	32.2
0°-40°	1665.1	51.2
0°-60°	2752.1	84.6
0°-90°	3252.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3252.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1406	1406	1406	1406	1406	
5°	1405	1404	1399	1391	1387	133
15°	1324	1327	1324	1318	1309	373
25°	1176	1185	1190	1182	1171	538
35°	946	958	1002	1008	1004	592
45°	732	744	769	804	808	565
55°	513	521	547	577	594	458
65°	300	308	327	350	370	298
75°	120	127	136	143	151	132
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°	1406.4	1406.4	1406.4	1406.4	1406.4
2.5°	1410.2	1410.7	1407.5	1398.8	1393.4
5°	1404.8	1404.2	1398.8	1391.3	1387.0
7.5°	1389.1	1390.2	1388.6	1377.8	1371.8
10°	1374.0	1374.5	1370.2	1361.6	1354.5
12.5°	1354.5	1354.0	1348.1	1343.7	1332.4
15°	1323.7	1327.0	1323.7	1317.8	1308.6
17.5°	1294.0	1294.0	1296.2	1285.9	1278.9
20°	1260.5	1262.1	1262.1	1254.0	1245.9
22.5°	1221.6	1226.5	1228.1	1219.5	1209.7
25°	1175.7	1184.9	1190.3	1181.6	1171.4
27.5°	1120.0	1134.1	1150.3	1143.8	1132.5
30°	1057.9	1078.4	1105.5	1100.1	1092.0
32.5°	999.0	1019.5	1056.8	1054.7	1050.3
35°	945.5	958.5	1002.3	1007.7	1003.9
37.5°	894.7	906.6	947.7	960.1	956.9
40°	841.3	854.2	886.6	908.8	909.9
42.5°	788.3	800.7	827.2	859.1	859.1
45°	732.1	744.5	768.8	804.0	808.3
47.5°	677.0	690.0	713.7	748.9	755.9
50°	623.0	634.9	658.6	692.7	703.5
52.5°	566.8	579.7	603.0	634.3	650.0
55°	512.7	521.4	546.8	577.0	593.8
57.5°	456.6	464.7	493.3	519.2	536.5
60°	402.5	412.8	434.9	461.4	481.4
62.5°	350.7	361.5	380.4	403.6	426.3
65°	300.4	308.5	326.9	350.1	370.1
67.5°	251.8	258.8	277.2	293.4	314.5
70°	202.6	211.8	225.3	241.0	254.5
72.5°	163.2	167.0	178.3	189.6	203.7
75°	120.5	127.0	136.2	142.6	150.7
77.5°	86.4	90.2	95.6	101.0	108.6
80°	57.8	59.4	64.3	65.4	71.3
82.5°	35.1	36.2	37.3	37.8	40.0
85°	18.9	18.9	18.9	17.8	17.8
87.5°	10.8	10.8	9.2	7.6	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)