

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: P555862

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-82-87-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: P555862
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-82-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

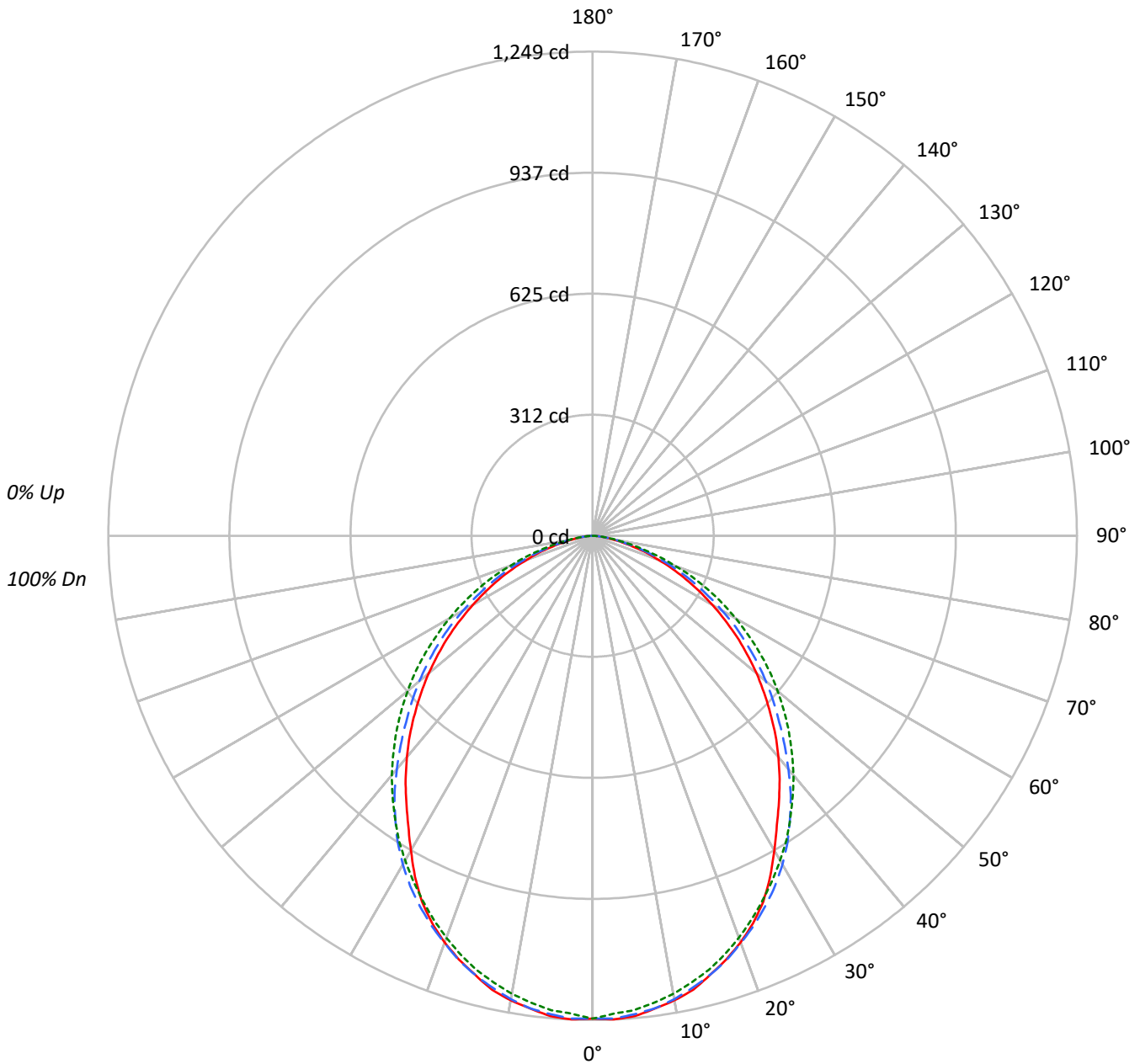
Lumens per Lamp: N/A
Luminaire Lumens: 2880.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6703	6703	6703
5°	6721	6693	6636
10°	6650	6632	6556
15°	6532	6532	6457
20°	6393	6402	6320
25°	6183	6260	6160
30°	5822	6084	6009
35°	5502	5832	5841
40°	5234	5517	5661
45°	4935	5182	5448
50°	4619	4884	5216
55°	4261	4543	4935
60°	3837	4146	4589
65°	3387	3687	4174
70°	2823	3139	3547
75°	2219	2508	2776
80°	1587	1764	1959
85°	1031	1031	976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.3	4.1
10°-20°	329.4	11.4
20°-30°	481.4	16.7
30°-40°	546.5	19.0
40°-50°	527.5	18.3
50°-60°	435.2	15.1
60°-70°	289.8	10.1
70°-80°	129.7	4.5
80°-90°	23.2	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°	928.1	32.2
0°-40°	1474.6	51.2
0°-60°	2437.3	84.6
0°-90°	2880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1246	1246	1246	1246	1246	
5°	1244	1244	1239	1232	1228	118
15°	1172	1175	1172	1167	1159	330
25°	1041	1049	1054	1046	1037	477
35°	837	849	888	892	889	525
45°	648	659	681	712	716	500
55°	454	462	484	511	526	405
65°	266	273	290	310	328	264
75°	107	112	121	126	134	117
85°	17	17	17	16	16	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1245.5	1245.5	1245.5	1245.5	1245.5
2.5°	1248.9	1249.4	1246.5	1238.8	1234.0
5°	1244.1	1243.6	1238.8	1232.1	1228.3
7.5°	1230.2	1231.2	1229.7	1220.2	1214.9
10°	1216.8	1217.3	1213.5	1205.8	1199.6
12.5°	1199.6	1199.1	1193.8	1190.0	1180.0
15°	1172.3	1175.2	1172.3	1167.1	1158.9
17.5°	1146.0	1146.0	1147.9	1138.8	1132.6
20°	1116.3	1117.8	1117.8	1110.6	1103.4
22.5°	1081.9	1086.2	1087.6	1080.0	1071.4
25°	1041.2	1049.3	1054.1	1046.5	1037.4
27.5°	991.9	1004.4	1018.7	1013.0	1002.9
30°	936.9	955.1	979.0	974.2	967.0
32.5°	884.7	902.9	935.9	934.0	930.2
35°	837.4	848.9	887.6	892.4	889.0
37.5°	792.4	802.9	839.3	850.3	847.4
40°	745.0	756.5	785.2	804.8	805.8
42.5°	698.1	709.1	732.6	760.8	760.8
45°	648.4	659.4	680.9	712.0	715.8
47.5°	599.6	611.0	632.1	663.2	669.4
50°	551.7	562.2	583.3	613.4	623.0
52.5°	501.9	513.4	534.0	561.8	575.6
55°	454.1	461.7	484.2	511.0	525.9
57.5°	404.3	411.5	436.9	459.8	475.1
60°	356.5	365.6	385.2	408.6	426.3
62.5°	310.5	320.1	336.9	357.4	377.5
65°	266.0	273.2	289.5	310.1	327.8
67.5°	223.0	229.2	245.5	259.8	278.5
70°	179.4	187.6	199.5	213.4	225.4
72.5°	144.5	147.9	157.9	168.0	180.4
75°	106.7	112.4	120.6	126.3	133.5
77.5°	76.6	79.9	84.7	89.5	96.2
80°	51.2	52.6	56.9	57.9	63.2
82.5°	31.1	32.1	33.0	33.5	35.4
85°	16.7	16.7	16.7	15.8	15.8
87.5°	9.6	9.6	8.1	6.7	4.8
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)