

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: P555912

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-81-88-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: P555912
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-30-UNV-81-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

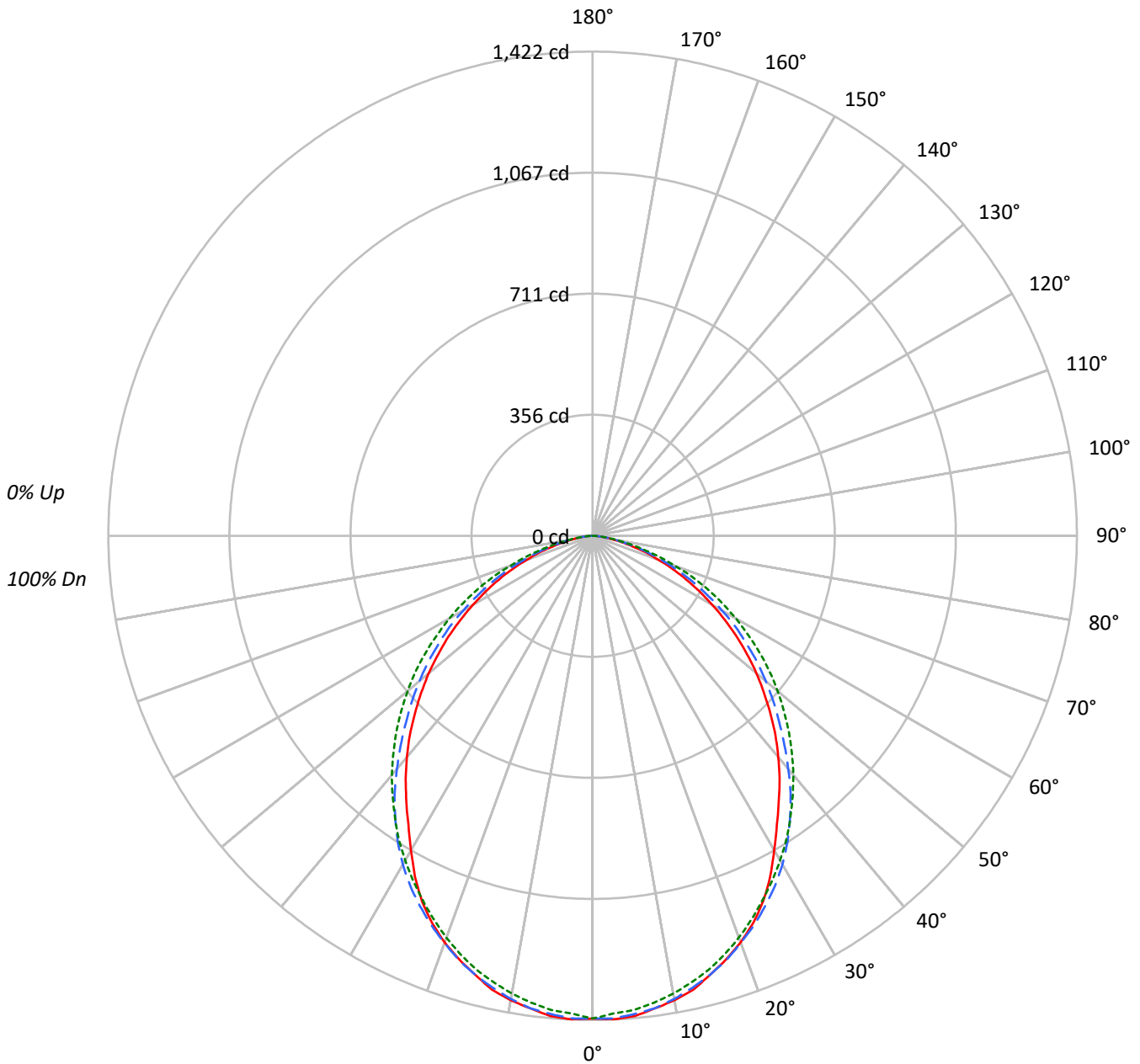
Lumens per Lamp: N/A
Luminaire Lumens: 3278.0 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	7630	7630	7630
5°	7650	7618	7553
10°	7569	7548	7462
15°	7434	7434	7350
20°	7277	7286	7193
25°	7038	7125	7011
30°	6627	6925	6840
35°	6262	6638	6648
40°	5958	6279	6443
45°	5617	5899	6202
50°	5257	5559	5937
55°	4849	5172	5616
60°	4367	4719	5224
65°	3856	4196	4751
70°	3213	3574	4036
75°	2527	2853	3159
80°	1807	2008	2228
85°	1179	1179	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	4.1
10°-20°	375.0	11.4
20°-30°	548.0	16.7
30°-40°	622.0	19.0
40°-50°	600.4	18.3
50°-60°	495.3	15.1
60°-70°	329.8	10.1
70°-80°	147.6	4.5
80°-90°	26.4	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°	1056.4	32.2
0°-40°	1678.4	51.2
0°-60°	2774.2	84.6
0°-90°	3278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3278.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1418	1418	1418	1418	1418	
5°	1416	1416	1410	1402	1398	134
15°	1334	1338	1334	1328	1319	376
25°	1185	1194	1200	1191	1181	543
35°	953	966	1010	1016	1012	597
45°	738	750	775	810	815	569
55°	517	526	551	582	598	461
65°	303	311	330	353	373	300
75°	122	128	137	144	152	133
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°	1417.7	1417.7	1417.7	1417.7	1417.7
2.5°	1421.5	1422.0	1418.7	1410.0	1404.6
5°	1416.0	1415.5	1410.0	1402.4	1398.0
7.5°	1400.2	1401.3	1399.7	1388.8	1382.8
10°	1385.0	1385.5	1381.2	1372.4	1365.4
12.5°	1365.4	1364.8	1358.8	1354.5	1343.0
15°	1334.3	1337.6	1334.3	1328.3	1319.1
17.5°	1304.4	1304.4	1306.5	1296.2	1289.1
20°	1270.6	1272.2	1272.2	1264.1	1255.9
22.5°	1231.4	1236.3	1237.9	1229.2	1219.4
25°	1185.1	1194.4	1199.8	1191.1	1180.7
27.5°	1129.0	1143.2	1159.5	1153.0	1141.5
30°	1066.4	1087.1	1114.3	1108.8	1100.7
32.5°	1007.0	1027.7	1065.3	1063.1	1058.7
35°	953.1	966.2	1010.3	1015.7	1011.9
37.5°	901.9	913.9	955.3	967.8	964.5
40°	848.0	861.0	893.7	916.1	917.1
42.5°	794.6	807.1	833.8	865.9	865.9
45°	738.0	750.5	775.0	810.4	814.8
47.5°	682.4	695.5	719.4	754.8	761.9
50°	627.9	639.9	663.9	698.2	709.1
52.5°	571.3	584.4	607.8	639.4	655.2
55°	516.8	525.6	551.2	581.7	598.5
57.5°	460.2	468.4	497.2	523.4	540.8
60°	405.7	416.1	438.4	465.1	485.3
62.5°	353.5	364.4	383.4	406.8	429.7
65°	302.8	311.0	329.5	352.9	373.1
67.5°	253.8	260.9	279.4	295.7	317.0
70°	204.2	213.5	227.1	242.9	256.5
72.5°	164.5	168.3	179.7	191.2	205.3
75°	121.5	128.0	137.2	143.8	151.9
77.5°	87.1	91.0	96.4	101.8	109.5
80°	58.3	59.9	64.8	65.9	71.9
82.5°	35.4	36.5	37.6	38.1	40.3
85°	19.1	19.1	19.1	18.0	18.0
87.5°	10.9	10.9	9.3	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)