

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: P554625

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-UNV-81-84-EDD**

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: P554625
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-30-UNV-81-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

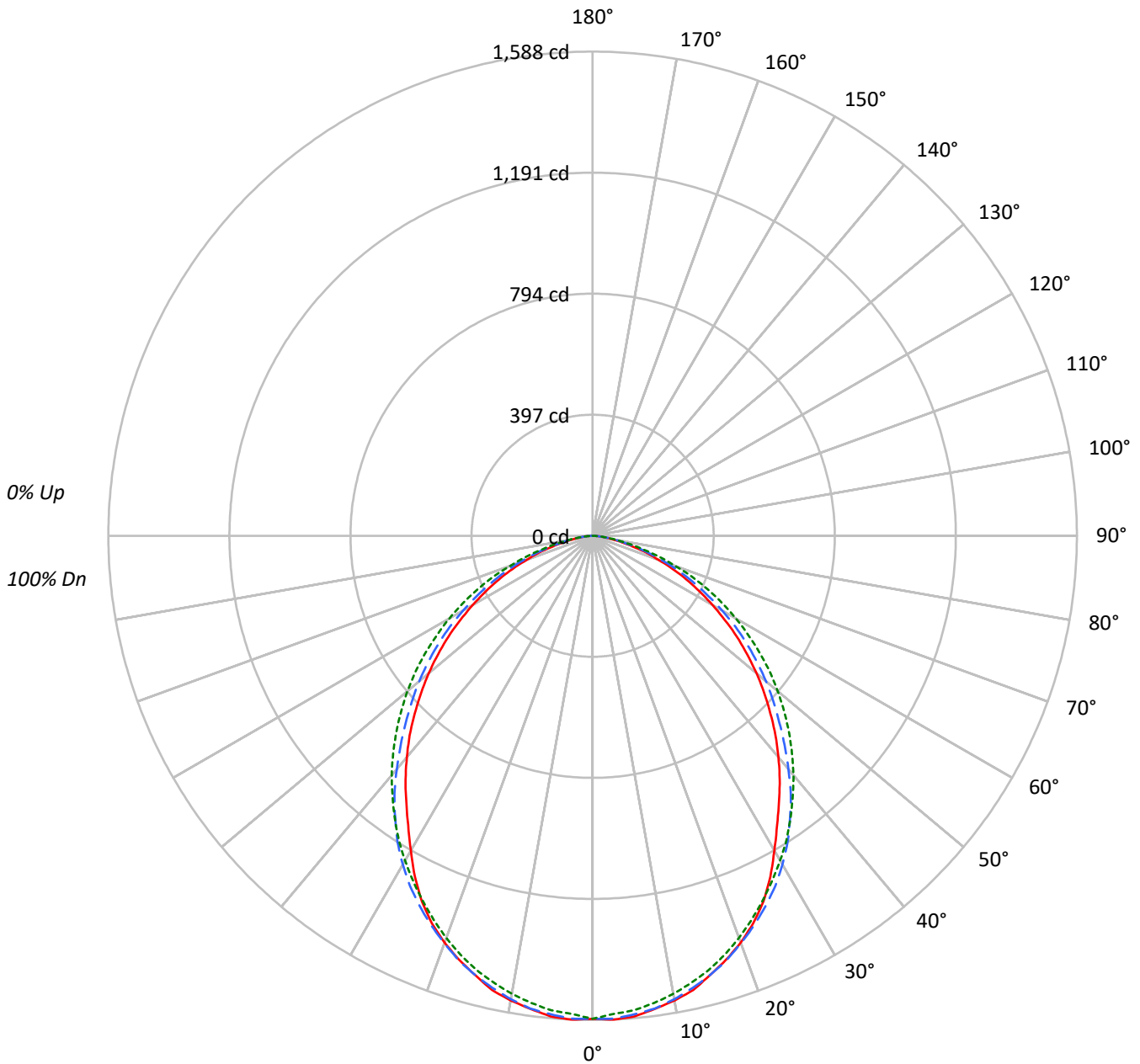
Lumens per Lamp: N/A
Luminaire Lumens: 3663.0 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
Input Voltage (V): NR
Input Current (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°	8526	8526	8526
5°	8548	8512	8440
10°	8458	8435	8338
15°	8308	8308	8213
20°	8132	8143	8038
25°	7864	7962	7835
30°	7405	7738	7644
35°	6997	7417	7430
40°	6658	7017	7201
45°	6276	6591	6929
50°	5875	6212	6635
55°	5419	5779	6275
60°	4880	5273	5837
65°	4309	4689	5309
70°	3591	3994	4510
75°	2822	3190	3531
80°	2018	2244	2489
85°	1315	1315	1241



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.2	4.1
10°-20°	419.0	11.4
20°-30°	612.3	16.7
30°-40°	695.0	19.0
40°-50°	671.0	18.3
50°-60°	553.5	15.1
60°-70°	368.6	10.1
70°-80°	164.9	4.5
80°-90°	29.5	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°	1180.5	32.2
0°-40°	1875.5	51.2
0°-60°	3100.0	84.6
0°-90°	3663.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3663.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1584	1584	1584	1584	1584	
5°	1582	1582	1576	1567	1562	150
15°	1491	1495	1491	1484	1474	420
25°	1324	1335	1341	1331	1319	606
35°	1065	1080	1129	1135	1131	667
45°	825	839	866	906	910	636
55°	578	587	616	650	669	515
65°	338	348	368	394	417	336
75°	136	143	153	161	170	148
85°	21	21	21	20	20	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1584.2	1584.2	1584.2	1584.2	1584.2
2.5°	1588.4	1589.0	1585.4	1575.6	1569.5
5°	1582.3	1581.7	1575.6	1567.1	1562.2
7.5°	1564.7	1565.9	1564.1	1551.9	1545.2
10°	1547.6	1548.2	1543.4	1533.6	1525.7
12.5°	1525.7	1525.1	1518.4	1513.6	1500.8
15°	1491.0	1494.7	1491.0	1484.3	1474.0
17.5°	1457.6	1457.6	1460.0	1448.4	1440.5
20°	1419.8	1421.7	1421.7	1412.5	1403.4
22.5°	1376.0	1381.5	1383.3	1373.6	1362.6
25°	1324.3	1334.6	1340.7	1331.0	1319.4
27.5°	1261.6	1277.4	1295.7	1288.4	1275.6
30°	1191.6	1214.7	1245.2	1239.1	1230.0
32.5°	1125.3	1148.4	1190.4	1188.0	1183.1
35°	1065.0	1079.6	1128.9	1135.0	1130.8
37.5°	1007.8	1021.2	1067.5	1081.5	1077.8
40°	947.6	962.2	998.7	1023.6	1024.9
42.5°	887.9	901.9	931.7	967.7	967.7
45°	824.6	838.6	866.0	905.6	910.4
47.5°	762.6	777.2	803.9	843.5	851.4
50°	701.7	715.1	741.9	780.2	792.4
52.5°	638.4	653.0	679.2	714.5	732.1
55°	577.5	587.3	615.9	650.0	668.8
57.5°	514.3	523.4	555.6	584.9	604.3
60°	453.4	465.0	489.9	519.7	542.3
62.5°	395.0	407.1	428.4	454.6	480.2
65°	338.4	347.5	368.2	394.4	416.9
67.5°	283.6	291.5	312.2	330.5	354.2
70°	228.2	238.6	253.8	271.4	286.6
72.5°	183.8	188.1	200.8	213.6	229.4
75°	135.7	143.0	153.4	160.7	169.8
77.5°	97.4	101.6	107.7	113.8	122.3
80°	65.1	66.9	72.4	73.6	80.3
82.5°	39.6	40.8	42.0	42.6	45.0
85°	21.3	21.3	21.3	20.1	20.1
87.5°	12.2	12.2	10.3	8.5	6.1
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)