

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: P554824

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-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: P554824
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-50-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 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

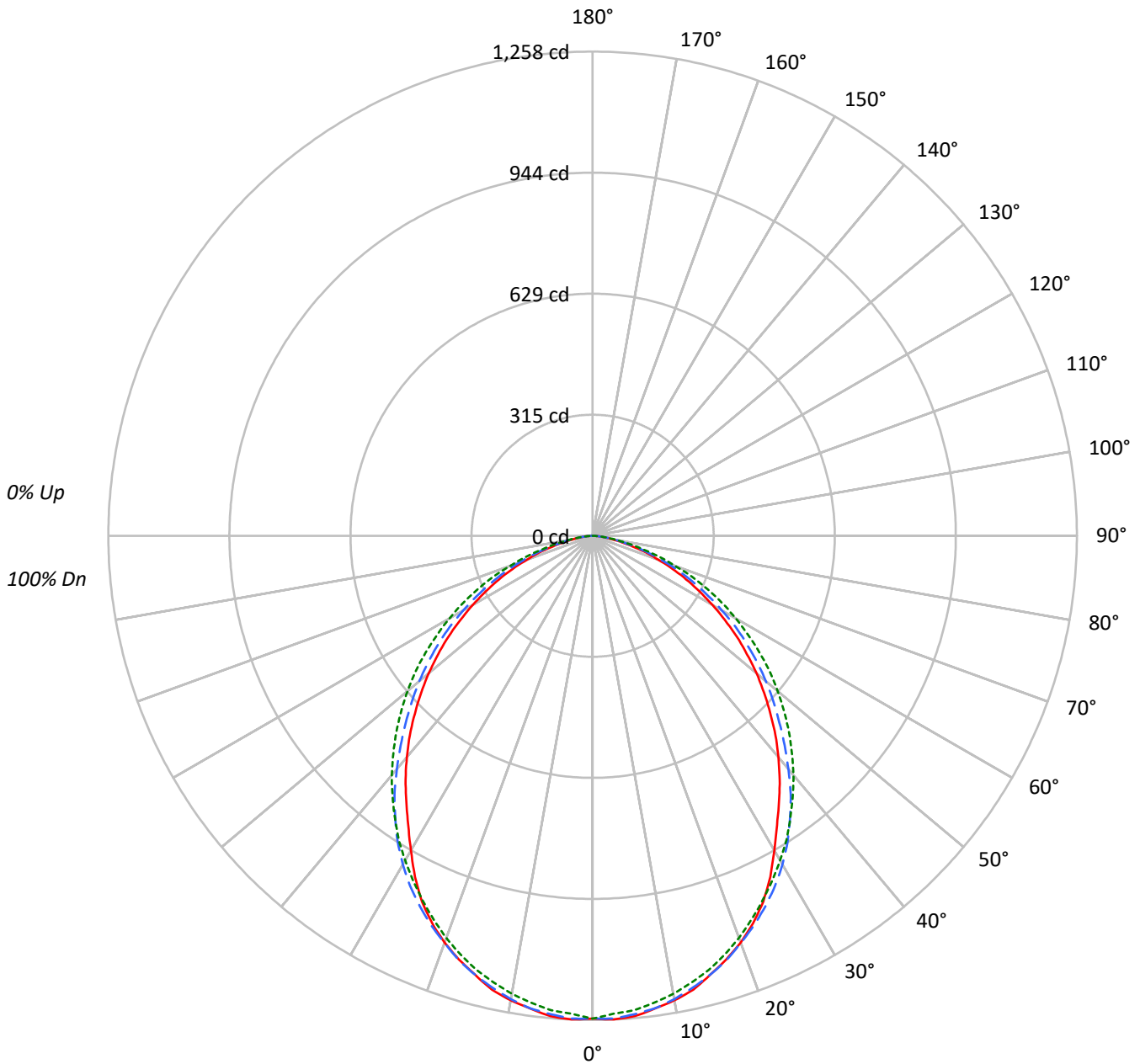
Lumens per Lamp: N/A
Luminaire Lumens: 2901.0 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P554824

CATALOG NUMBER: FUSL-12-2-LD4-2HI-50-UNV-81-88-EDD-90

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°	6752	6752	6752
5°	6770	6742	6685
10°	6698	6680	6603
15°	6580	6580	6505
20°	6440	6448	6366
25°	6228	6305	6205
30°	5865	6128	6054
35°	5542	5874	5884
40°	5273	5557	5703
45°	4971	5221	5488
50°	4653	4919	5254
55°	4292	4577	4970
60°	3865	4176	4622
65°	3413	3713	4205
70°	2843	3163	3572
75°	2235	2527	2797
80°	1599	1779	1971
85°	1044	1044	982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.1	4.1
10°-20°	331.9	11.4
20°-30°	484.9	16.7
30°-40°	550.5	19.0
40°-50°	531.4	18.3
50°-60°	438.4	15.1
60°-70°	291.9	10.1
70°-80°	130.6	4.5
80°-90°	23.4	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°	934.9	32.2
0°-40°	1485.4	51.2
0°-60°	2455.1	84.6
0°-90°	2901.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2901.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1255	1255	1255	1255	1255	
5°	1253	1253	1248	1241	1237	119
15°	1181	1184	1181	1176	1167	333
25°	1049	1057	1062	1054	1045	480
35°	844	855	894	899	896	528
45°	653	664	686	717	721	504
55°	457	465	488	515	530	408
65°	268	275	292	312	330	266
75°	108	113	122	127	134	118
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°	1254.6	1254.6	1254.6	1254.6	1254.6
2.5°	1258.0	1258.5	1255.6	1247.9	1243.0
5°	1253.2	1252.7	1247.9	1241.1	1237.3
7.5°	1239.2	1240.1	1238.7	1229.1	1223.8
10°	1225.7	1226.2	1222.3	1214.6	1208.3
12.5°	1208.3	1207.9	1202.6	1198.7	1188.6
15°	1180.9	1183.8	1180.9	1175.6	1167.4
17.5°	1154.4	1154.4	1156.3	1147.1	1140.9
20°	1124.5	1125.9	1125.9	1118.7	1111.5
22.5°	1089.8	1094.1	1095.6	1087.8	1079.2
25°	1048.8	1057.0	1061.8	1054.1	1044.9
27.5°	999.2	1011.7	1026.1	1020.4	1010.2
30°	943.7	962.0	986.1	981.3	974.1
32.5°	891.2	909.5	942.8	940.8	937.0
35°	843.5	855.0	894.1	898.9	895.5
37.5°	798.2	808.8	845.4	856.5	853.6
40°	750.5	762.0	790.9	810.7	811.7
42.5°	703.2	714.3	737.9	766.4	766.4
45°	653.1	664.2	685.9	717.2	721.0
47.5°	603.9	615.5	636.7	668.0	674.3
50°	555.7	566.3	587.5	617.9	627.5
52.5°	505.6	517.2	537.9	565.9	579.8
55°	457.4	465.1	487.8	514.8	529.7
57.5°	407.3	414.5	440.1	463.2	478.6
60°	359.1	368.2	388.0	411.6	429.4
62.5°	312.8	322.4	339.3	360.0	380.3
65°	268.0	275.2	291.6	312.3	330.2
67.5°	224.6	230.9	247.3	261.7	280.5
70°	180.7	188.9	201.0	215.0	227.0
72.5°	145.6	148.9	159.1	169.2	181.7
75°	107.5	113.3	121.5	127.2	134.5
77.5°	77.1	80.5	85.3	90.1	96.9
80°	51.6	53.0	57.4	58.3	63.6
82.5°	31.3	32.3	33.3	33.7	35.7
85°	16.9	16.9	16.9	15.9	15.9
87.5°	9.6	9.6	8.2	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)