

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: P557527

Luminaire Tested: **FUSL-12-4-LD4-2STD-35-UNV-82-87-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: P557527
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-12-4-LD4-2STD-35-UNV-82-87-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

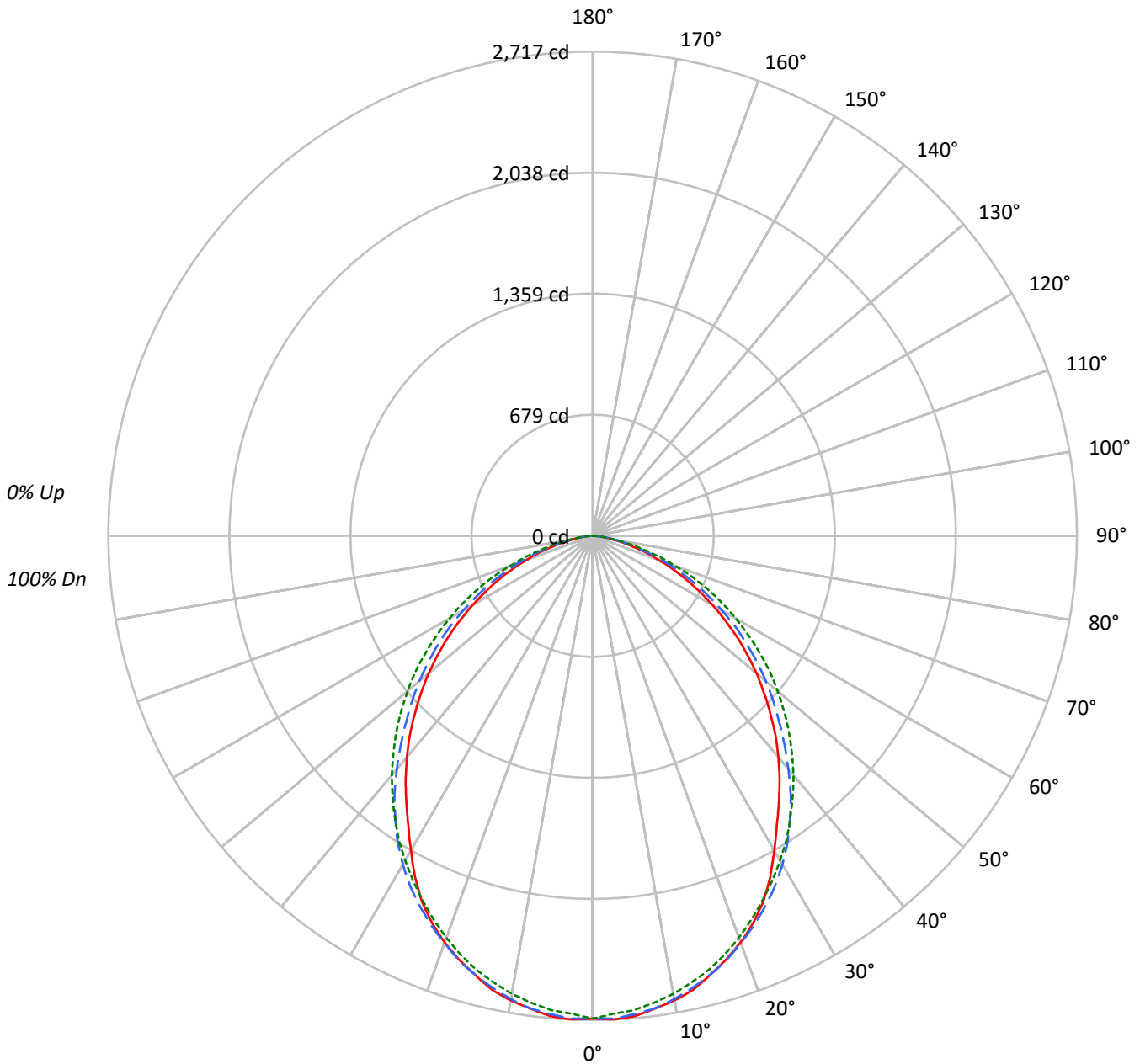
Lumens per Lamp: N/A
Luminaire Lumens: 6265.0 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (A_{in}): 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: P557527

CATALOG NUMBER: FUSL-12-4-LD4-2STD-35-UNV-82-87-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P557527

CATALOG NUMBER: FUSL-12-4-LD4-2STD-35-UNV-82-87-EDD

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°	7291	7291	7291
5°	7310	7280	7218
10°	7233	7213	7130
15°	7105	7105	7023
20°	6954	6963	6874
25°	6725	6809	6701
30°	6333	6618	6536
35°	5984	6343	6353
40°	5693	6000	6158
45°	5367	5637	5926
50°	5025	5312	5673
55°	4634	4942	5367
60°	4174	4510	4991
65°	3685	4010	4540
70°	3071	3415	3858
75°	2413	2727	3019
80°	1726	1920	2129
85°	1124	1124	1059



TEST NUMBER: P557527

CATALOG NUMBER: FUSL-12-4-LD4-2STD-35-UNV-82-87-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.1	4.1
10°-20°	716.7	11.4
20°-30°	1047.3	16.7
30°-40°	1188.8	19.0
40°-50°	1147.6	18.3
50°-60°	946.7	15.1
60°-70°	630.4	10.1
70°-80°	282.1	4.5
80°-90°	50.5	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°	2019.0	32.2
0°-40°	3207.8	51.2
0°-60°	5302.0	84.6
0°-90°	6265.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6265.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2710	2710	2710	2710	2710	
5°	2706	2705	2695	2680	2672	256
15°	2550	2556	2550	2539	2521	719
25°	2265	2283	2293	2276	2257	1037
35°	1822	1846	1931	1941	1934	1141
45°	1410	1434	1481	1549	1557	1088
55°	988	1004	1053	1112	1144	882
65°	579	594	630	674	713	574
75°	232	245	262	275	290	254
85°	36	36	36	34	34	49
90°	0	0	0	0	0	



TEST NUMBER: P557527

CATALOG NUMBER: FUSL-12-4-LD4-2STD-35-UNV-82-87-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2709.5	2709.5	2709.5	2709.5	2709.5
2.5°	2716.7	2717.8	2711.5	2694.9	2684.5
5°	2706.3	2705.3	2694.9	2680.3	2672.0
7.5°	2676.1	2678.2	2675.1	2654.3	2642.8
10°	2647.0	2648.0	2639.7	2623.1	2609.5
12.5°	2609.5	2608.5	2597.0	2588.7	2566.8
15°	2550.2	2556.4	2550.2	2538.7	2521.0
17.5°	2492.9	2492.9	2497.1	2477.3	2463.8
20°	2428.4	2431.5	2431.5	2415.9	2400.3
22.5°	2353.5	2362.8	2366.0	2349.3	2330.6
25°	2265.0	2282.7	2293.1	2276.4	2256.7
27.5°	2157.8	2184.8	2216.1	2203.6	2181.7
30°	2038.1	2077.6	2129.7	2119.3	2103.6
32.5°	1924.6	1964.2	2036.0	2031.8	2023.5
35°	1821.6	1846.5	1930.9	1941.3	1934.0
37.5°	1723.7	1746.6	1825.7	1849.7	1843.4
40°	1620.7	1645.7	1708.1	1750.8	1752.9
42.5°	1518.7	1542.6	1593.6	1655.0	1655.0
45°	1410.4	1434.4	1481.2	1548.9	1557.2
47.5°	1304.2	1329.2	1375.0	1442.7	1456.2
50°	1200.2	1223.1	1268.9	1334.4	1355.2
52.5°	1091.9	1116.9	1161.6	1222.0	1252.2
55°	987.8	1004.5	1053.4	1111.7	1143.9
57.5°	879.6	895.2	950.3	1000.3	1033.6
60°	775.5	795.2	837.9	888.9	927.4
62.5°	675.5	696.4	732.8	777.5	821.3
65°	578.7	594.4	629.7	674.5	713.0
67.5°	485.1	498.6	534.0	565.2	605.8
70°	390.3	408.0	434.1	464.2	490.3
72.5°	314.4	321.6	343.5	365.4	392.4
75°	232.1	244.6	262.3	274.8	290.4
77.5°	166.5	173.8	184.2	194.6	209.2
80°	111.4	114.5	123.9	125.9	137.4
82.5°	67.7	69.7	71.8	72.9	77.0
85°	36.4	36.4	36.4	34.3	34.3
87.5°	20.8	20.8	17.7	14.6	10.4
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)