

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: P557942

Luminaire Tested: **FUSL-12-4-LD4-3LO-30-UNV-80-87-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: P557942
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-LD4-3LO-30-UNV-80-87-EDD-90
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

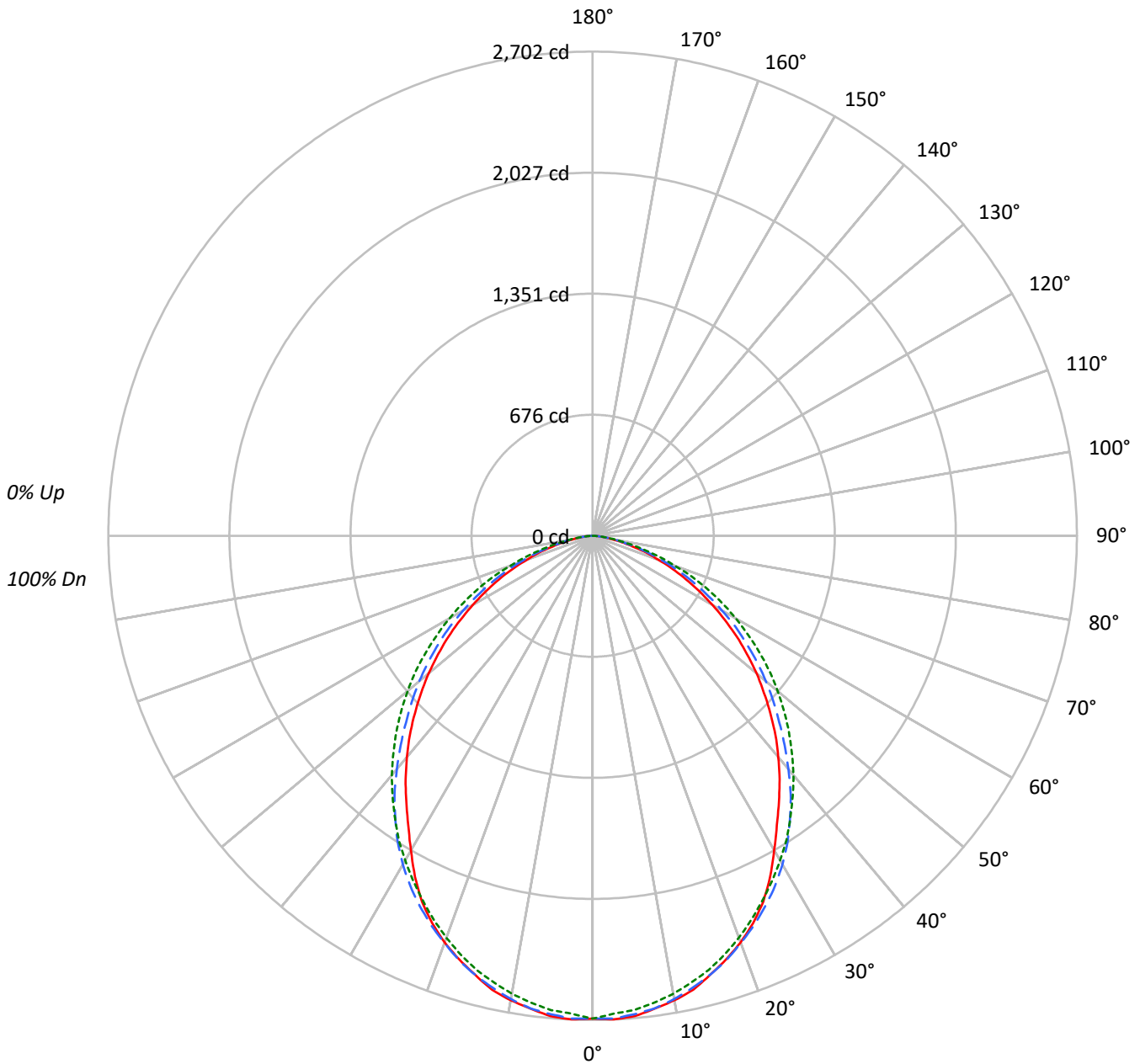
Lumens per Lamp: N/A
Luminaire Lumens: 6230.0 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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: P557942

CATALOG NUMBER: FUSL-12-4-LD4-3LO-30-UNV-80-87-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P557942

CATALOG NUMBER: FUSL-12-4-LD4-3LO-30-UNV-80-87-EDD-90

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°	7250	7250	7250
5°	7270	7239	7178
10°	7192	7173	7091
15°	7065	7065	6984
20°	6915	6924	6835
25°	6687	6771	6663
30°	6298	6581	6500
35°	5951	6308	6318
40°	5661	5967	6123
45°	5337	5605	5893
50°	4996	5282	5642
55°	4609	4914	5337
60°	4150	4484	4964
65°	3664	3987	4514
70°	3054	3396	3836
75°	2400	2712	3003
80°	1717	1909	2117
85°	1118	1118	1056



TEST NUMBER: P557942

CATALOG NUMBER: FUSL-12-4-LD4-3LO-30-UNV-80-87-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.7	4.1
10°-20°	712.6	11.4
20°-30°	1041.4	16.7
30°-40°	1182.1	19.0
40°-50°	1141.2	18.3
50°-60°	941.4	15.1
60°-70°	626.9	10.1
70°-80°	280.5	4.5
80°-90°	50.2	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°	2007.7	32.2
0°-40°	3189.9	51.2
0°-60°	5272.4	84.6
0°-90°	6230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6230.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2694	2694	2694	2694	2694	
5°	2691	2690	2680	2665	2657	255
15°	2536	2542	2536	2525	2507	715
25°	2252	2270	2280	2264	2244	1031
35°	1811	1836	1920	1930	1923	1135
45°	1402	1426	1473	1540	1548	1082
55°	982	999	1048	1106	1138	877
65°	576	591	626	671	709	571
75°	231	243	261	273	289	252
85°	36	36	36	34	34	49
90°	0	0	0	0	0	



TEST NUMBER: P557942

CATALOG NUMBER: FUSL-12-4-LD4-3LO-30-UNV-80-87-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2694.3	2694.3	2694.3	2694.3	2694.3
2.5°	2701.6	2702.6	2696.4	2679.8	2669.5
5°	2691.2	2690.2	2679.8	2665.3	2657.1
7.5°	2661.2	2663.3	2660.2	2639.5	2628.1
10°	2632.2	2633.2	2625.0	2608.4	2594.9
12.5°	2594.9	2593.9	2582.5	2574.2	2552.5
15°	2535.9	2542.2	2535.9	2524.6	2507.0
17.5°	2479.0	2479.0	2483.2	2463.5	2450.0
20°	2414.8	2417.9	2417.9	2402.4	2386.9
22.5°	2340.3	2349.6	2352.7	2336.2	2317.5
25°	2252.3	2269.9	2280.3	2263.7	2244.1
27.5°	2145.7	2172.6	2203.7	2191.3	2169.5
30°	2026.7	2066.0	2117.8	2107.4	2091.9
32.5°	1913.9	1953.2	2024.6	2020.5	2012.2
35°	1811.4	1836.2	1920.1	1930.4	1923.2
37.5°	1714.1	1736.9	1815.5	1839.3	1833.1
40°	1611.6	1636.5	1698.6	1741.0	1743.1
42.5°	1510.2	1534.0	1584.7	1645.8	1645.8
45°	1402.5	1426.3	1472.9	1540.2	1548.5
47.5°	1297.0	1321.8	1367.3	1434.6	1448.1
50°	1193.4	1216.2	1261.8	1327.0	1347.7
52.5°	1085.8	1110.6	1155.1	1215.2	1245.2
55°	982.3	998.9	1047.5	1105.5	1137.6
57.5°	874.6	890.2	945.0	994.7	1027.8
60°	771.1	790.8	833.2	884.0	922.3
62.5°	671.8	692.5	728.7	773.2	816.7
65°	575.5	591.0	626.2	670.7	709.0
67.5°	482.3	495.8	531.0	562.0	602.4
70°	388.2	405.8	431.6	461.6	487.5
72.5°	312.6	319.8	341.6	363.3	390.2
75°	230.8	243.2	260.8	273.3	288.8
77.5°	165.6	172.9	183.2	193.6	208.1
80°	110.8	113.9	123.2	125.2	136.6
82.5°	67.3	69.4	71.4	72.5	76.6
85°	36.2	36.2	36.2	34.2	34.2
87.5°	20.7	20.7	17.6	14.5	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)