

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: P555276

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-81-96-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: P555276
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-LD4-2STD-40-UNV-81-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

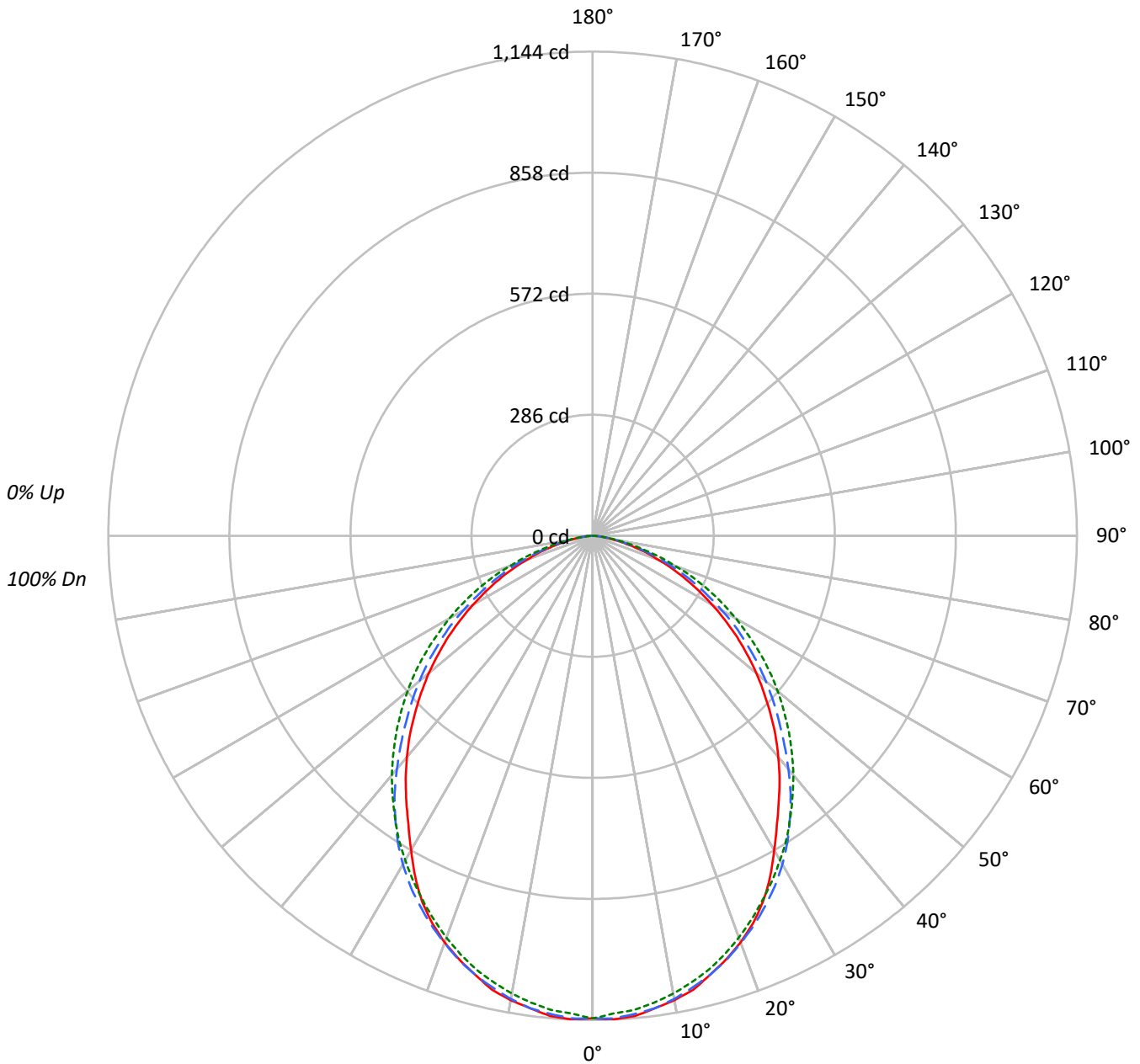
Lumens per Lamp: N/A
Luminaire Lumens: 2637.0 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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: P555276

CATALOG NUMBER: FUSL-12-2-LD4-2STD-40-UNV-81-96-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P555276

CATALOG NUMBER: FUSL-12-2-LD4-2STD-40-UNV-81-96-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°	6138	6138	6138
5°	6154	6128	6076
10°	6089	6072	6003
15°	5981	5981	5912
20°	5854	5862	5786
25°	5662	5732	5641
30°	5331	5571	5502
35°	5037	5340	5348
40°	4793	5051	5184
45°	4519	4745	4988
50°	4230	4472	4776
55°	3902	4160	4518
60°	3513	3796	4202
65°	3102	3376	3822
70°	2585	2875	3248
75°	2032	2296	2541
80°	1454	1615	1791
85°	945	945	895



TEST NUMBER: P555276

CATALOG NUMBER: FUSL-12-2-LD4-2STD-40-UNV-81-96-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	4.1
10°-20°	301.6	11.4
20°-30°	440.8	16.7
30°-40°	500.4	19.0
40°-50°	483.0	18.3
50°-60°	398.5	15.1
60°-70°	265.4	10.1
70°-80°	118.7	4.5
80°-90°	21.2	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°	849.8	32.2
0°-40°	1350.2	51.2
0°-60°	2231.7	84.6
0°-90°	2637.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2637.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1140	1140	1140	1140	1140	
5°	1139	1139	1134	1128	1125	108
15°	1073	1076	1073	1069	1061	303
25°	953	961	965	958	950	437
35°	767	777	813	817	814	480
45°	594	604	623	652	655	458
55°	416	423	443	468	482	371
65°	244	250	265	284	300	242
75°	98	103	110	116	122	107
85°	15	15	15	14	14	21
90°	0	0	0	0	0	



TEST NUMBER: P555276

CATALOG NUMBER: FUSL-12-2-LD4-2STD-40-UNV-81-96-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1140.4	1140.4	1140.4	1140.4	1140.4
2.5°	1143.5	1143.9	1141.3	1134.3	1129.9
5°	1139.1	1138.7	1134.3	1128.2	1124.7
7.5°	1126.4	1127.3	1126.0	1117.2	1112.4
10°	1114.1	1114.6	1111.1	1104.1	1098.4
12.5°	1098.4	1097.9	1093.1	1089.6	1080.4
15°	1073.4	1076.0	1073.4	1068.6	1061.1
17.5°	1049.3	1049.3	1051.1	1042.7	1037.0
20°	1022.1	1023.5	1023.5	1016.9	1010.3
22.5°	990.6	994.5	995.9	988.8	981.0
25°	953.4	960.8	965.2	958.2	949.9
27.5°	908.2	919.6	932.8	927.5	918.3
30°	857.8	874.5	896.4	892.0	885.4
32.5°	810.1	826.7	857.0	855.2	851.7
35°	766.7	777.2	812.7	817.1	814.0
37.5°	725.5	735.2	768.5	778.5	775.9
40°	682.2	692.7	719.0	736.9	737.8
42.5°	639.2	649.3	670.8	696.6	696.6
45°	593.7	603.7	623.4	651.9	655.4
47.5°	549.0	559.5	578.8	607.2	612.9
50°	505.2	514.8	534.1	561.7	570.4
52.5°	459.6	470.1	488.9	514.4	527.1
55°	415.8	422.8	443.4	467.9	481.5
57.5°	370.2	376.8	400.0	421.0	435.1
60°	326.4	334.7	352.7	374.2	390.4
62.5°	284.3	293.1	308.4	327.3	345.7
65°	243.6	250.2	265.1	283.9	300.1
67.5°	204.2	209.9	224.8	237.9	255.0
70°	164.3	171.7	182.7	195.4	206.4
72.5°	132.3	135.4	144.6	153.8	165.2
75°	97.7	103.0	110.4	115.7	122.2
77.5°	70.1	73.2	77.5	81.9	88.1
80°	46.9	48.2	52.1	53.0	57.8
82.5°	28.5	29.4	30.2	30.7	32.4
85°	15.3	15.3	15.3	14.5	14.5
87.5°	8.8	8.8	7.4	6.1	4.4
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)