

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: P554364

Luminaire Tested: **FUSL-12-2-LD4-1STD-30-UNV-80-96-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: P554364
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-LD4-1STD-30-UNV-80-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

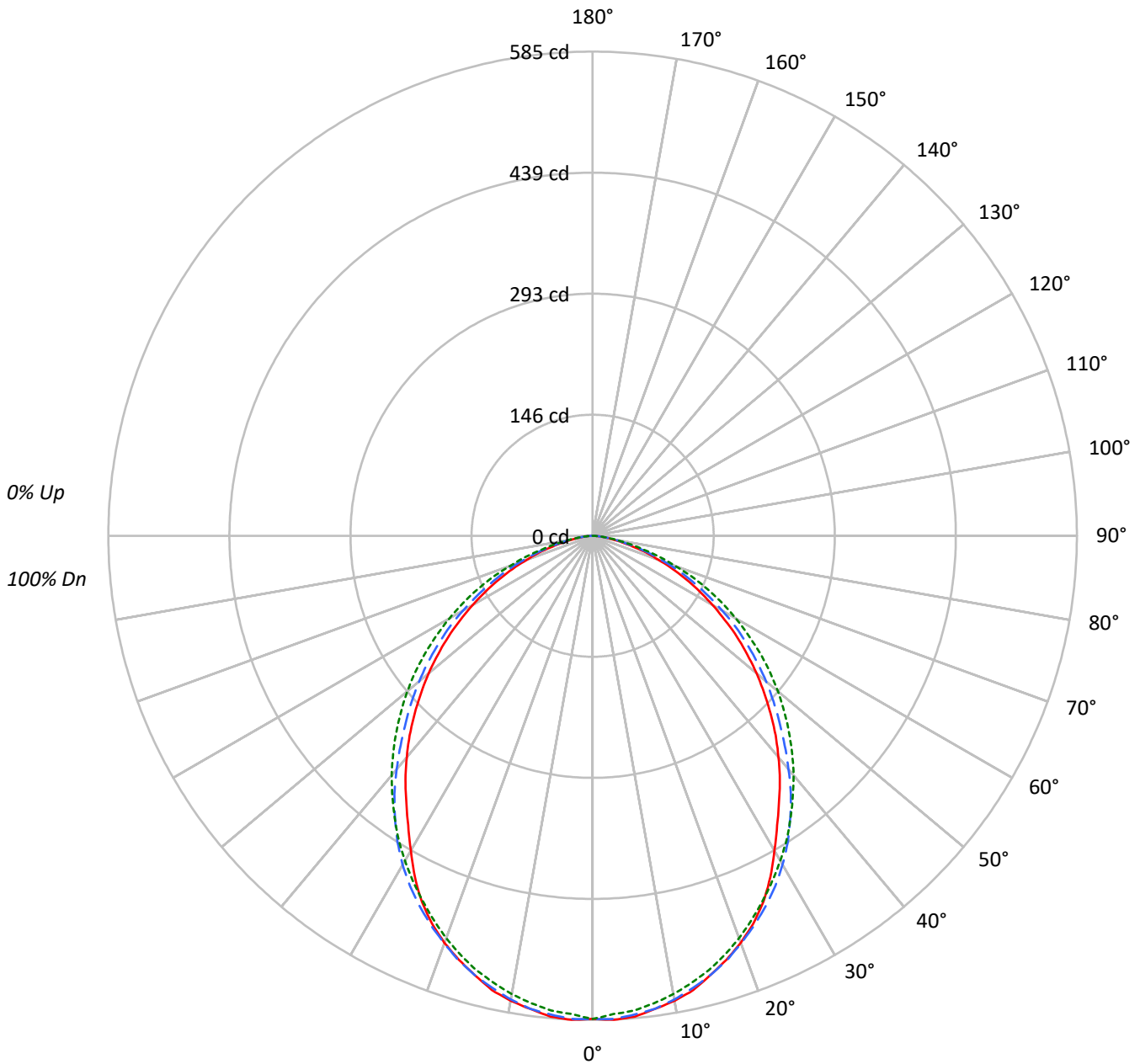
Lumens per Lamp: N/A
Luminaire Lumens: 1350.0 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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: P554364

CATALOG NUMBER: FUSL-12-2-LD4-1STD-30-UNV-80-96-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554364

CATALOG NUMBER: FUSL-12-2-LD4-1STD-30-UNV-80-96-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°	3142	3142	3142
5°	3151	3137	3111
10°	3117	3108	3073
15°	3062	3062	3027
20°	2997	3001	2962
25°	2899	2934	2888
30°	2729	2852	2817
35°	2579	2734	2738
40°	2453	2586	2654
45°	2313	2430	2554
50°	2165	2289	2445
55°	1998	2130	2313
60°	1799	1944	2151
65°	1588	1728	1956
70°	1323	1471	1662
75°	1040	1175	1302
80°	744	828	917
85°	488	488	457



TEST NUMBER: P554364

CATALOG NUMBER: FUSL-12-2-LD4-1STD-30-UNV-80-96-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	4.1
10°-20°	154.4	11.4
20°-30°	225.7	16.7
30°-40°	256.2	19.0
40°-50°	247.3	18.3
50°-60°	204.0	15.1
60°-70°	135.8	10.1
70°-80°	60.8	4.5
80°-90°	10.9	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°	435.1	32.2
0°-40°	691.2	51.2
0°-60°	1142.5	84.6
0°-90°	1350.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1350.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	584	584	584	584	584	
5°	583	583	581	578	576	55
15°	550	551	550	547	543	155
25°	488	492	494	490	486	224
35°	392	398	416	418	417	246
45°	304	309	319	334	336	234
55°	213	216	227	240	246	190
65°	125	128	136	145	154	124
75°	50	53	56	59	63	55
85°	8	8	8	7	7	11
90°	0	0	0	0	0	



TEST NUMBER: P554364

CATALOG NUMBER: FUSL-12-2-LD4-1STD-30-UNV-80-96-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	583.8	583.8	583.8	583.8	583.8
2.5°	585.4	585.6	584.3	580.7	578.5
5°	583.2	582.9	580.7	577.6	575.8
7.5°	576.7	577.1	576.4	572.0	569.5
10°	570.4	570.6	568.8	565.2	562.3
12.5°	562.3	562.1	559.6	557.8	553.1
15°	549.5	550.9	549.5	547.1	543.2
17.5°	537.2	537.2	538.1	533.8	530.9
20°	523.3	524.0	524.0	520.6	517.2
22.5°	507.1	509.1	509.8	506.2	502.2
25°	488.1	491.9	494.1	490.5	486.3
27.5°	465.0	470.8	477.5	474.8	470.1
30°	439.2	447.7	458.9	456.7	453.3
32.5°	414.7	423.2	438.7	437.8	436.0
35°	392.5	397.9	416.1	418.3	416.7
37.5°	371.4	376.4	393.4	398.6	397.2
40°	349.2	354.6	368.1	377.3	377.7
42.5°	327.2	332.4	343.4	356.6	356.6
45°	303.9	309.1	319.2	333.8	335.5
47.5°	281.0	286.4	296.3	310.9	313.8
50°	258.6	263.5	273.4	287.5	292.0
52.5°	235.3	240.7	250.3	263.3	269.8
55°	212.9	216.4	227.0	239.5	246.5
57.5°	189.5	192.9	204.8	215.5	222.7
60°	167.1	171.4	180.6	191.5	199.8
62.5°	145.6	150.1	157.9	167.5	177.0
65°	124.7	128.1	135.7	145.3	153.6
67.5°	104.5	107.4	115.1	121.8	130.5
70°	84.1	87.9	93.5	100.0	105.6
72.5°	67.7	69.3	74.0	78.7	84.6
75°	50.0	52.7	56.5	59.2	62.6
77.5°	35.9	37.5	39.7	41.9	45.1
80°	24.0	24.7	26.7	27.1	29.6
82.5°	14.6	15.0	15.5	15.7	16.6
85°	7.9	7.9	7.9	7.4	7.4
87.5°	4.5	4.5	3.8	3.1	2.2
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)