

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: P553960

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-93-88-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: P553960
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-LD4-1HI-35-UNV-93-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

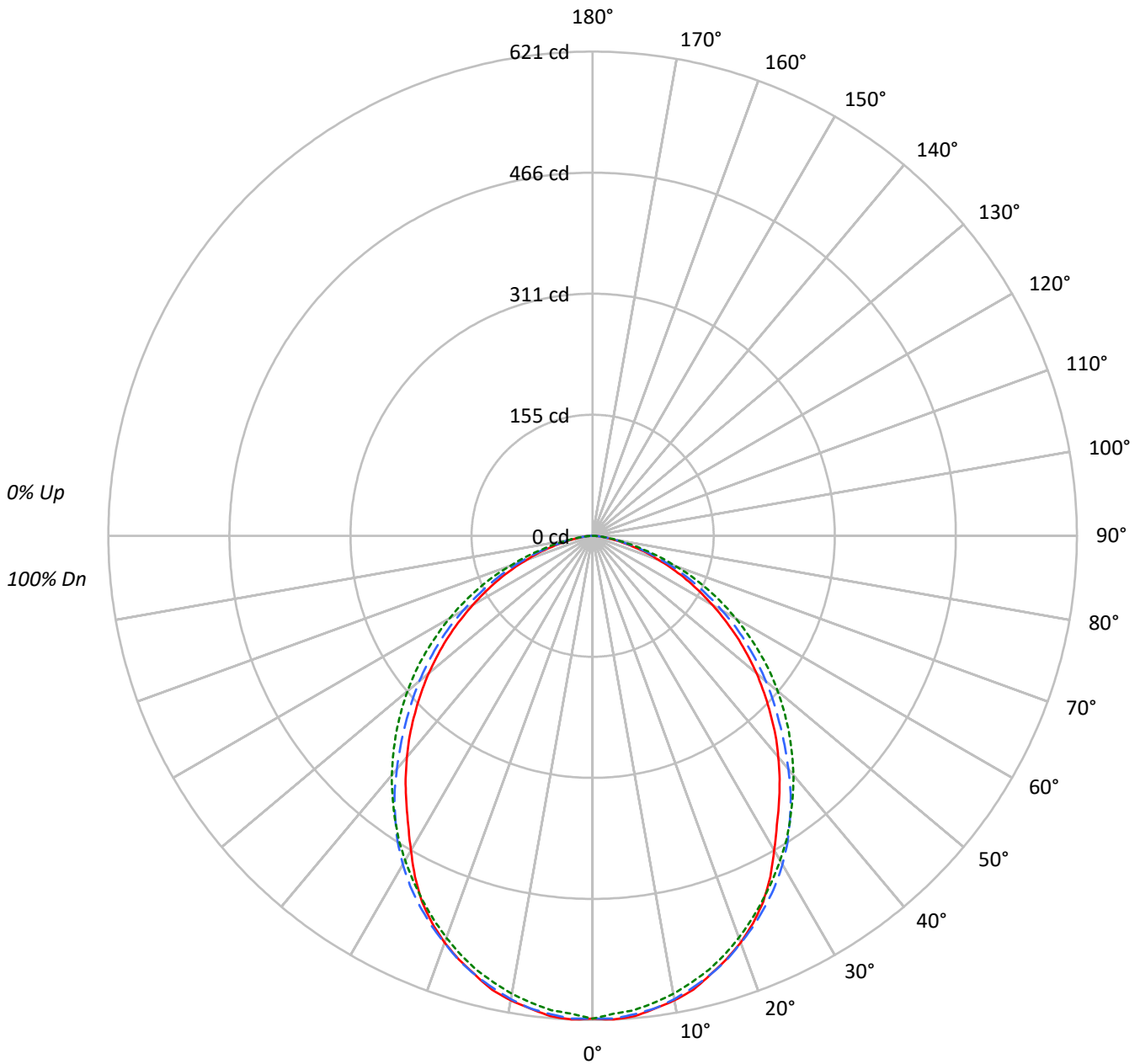
Lumens per Lamp: N/A
Luminaire Lumens: 1432.0 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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: P553960

CATALOG NUMBER: FUSL-12-2-LD4-1HI-35-UNV-93-88-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°	3333	3333	3333
5°	3342	3328	3299
10°	3306	3298	3260
15°	3248	3248	3210
20°	3179	3183	3142
25°	3074	3112	3063
30°	2895	3025	2988
35°	2736	2899	2905
40°	2602	2743	2815
45°	2454	2577	2709
50°	2297	2428	2594
55°	2119	2259	2454
60°	1907	2061	2282
65°	1685	1833	2076
70°	1404	1561	1764
75°	1104	1248	1381
80°	790	877	973
85°	513	513	488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	4.1
10°-20°	163.8	11.4
20°-30°	239.4	16.7
30°-40°	271.7	19.0
40°-50°	262.3	18.3
50°-60°	216.4	15.1
60°-70°	144.1	10.1
70°-80°	64.5	4.5
80°-90°	11.5	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°	461.5	32.2
0°-40°	733.2	51.2
0°-60°	1211.9	84.6
0°-90°	1432.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1432.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	619	619	619	619	619	
5°	619	618	616	613	611	59
15°	583	584	583	580	576	164
25°	518	522	524	520	516	237
35°	416	422	441	444	442	261
45°	322	328	339	354	356	249
55°	226	230	241	254	262	202
65°	132	136	144	154	163	131
75°	53	56	60	63	66	58
85°	8	8	8	8	8	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	619.3	619.3	619.3	619.3	619.3
2.5°	621.0	621.2	619.8	616.0	613.6
5°	618.6	618.4	616.0	612.6	610.7
7.5°	611.7	612.2	611.5	606.7	604.1
10°	605.0	605.3	603.4	599.6	596.5
12.5°	596.5	596.2	593.6	591.7	586.7
15°	582.9	584.3	582.9	580.3	576.2
17.5°	569.8	569.8	570.8	566.2	563.2
20°	555.1	555.8	555.8	552.2	548.6
22.5°	537.9	540.1	540.8	537.0	532.7
25°	517.7	521.8	524.1	520.3	515.8
27.5°	493.2	499.4	506.5	503.7	498.7
30°	465.8	474.9	486.8	484.4	480.8
32.5°	439.9	449.0	465.4	464.4	462.5
35°	416.4	422.1	441.3	443.7	442.1
37.5°	394.0	399.2	417.3	422.8	421.4
40°	370.4	376.1	390.4	400.2	400.7
42.5°	347.1	352.6	364.3	378.3	378.3
45°	322.4	327.9	338.6	354.0	355.9
47.5°	298.1	303.8	314.3	329.8	332.8
50°	274.3	279.6	290.0	305.0	309.8
52.5°	249.6	255.3	265.5	279.3	286.2
55°	225.8	229.6	240.8	254.1	261.5
57.5°	201.0	204.6	217.2	228.6	236.3
60°	177.2	181.8	191.5	203.2	212.0
62.5°	154.4	159.2	167.5	177.7	187.7
65°	132.3	135.9	143.9	154.2	163.0
67.5°	110.9	114.0	122.1	129.2	138.5
70°	89.2	93.3	99.2	106.1	112.1
72.5°	71.9	73.5	78.5	83.5	89.7
75°	53.1	55.9	60.0	62.8	66.4
77.5°	38.1	39.7	42.1	44.5	47.8
80°	25.5	26.2	28.3	28.8	31.4
82.5°	15.5	15.9	16.4	16.7	17.6
85°	8.3	8.3	8.3	7.9	7.9
87.5°	4.8	4.8	4.0	3.3	2.4
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)