

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: P554426

Luminaire Tested: **FUSL-12-2-LD4-1STD-35-UNV-80-94-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: P554426
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-35-UNV-80-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

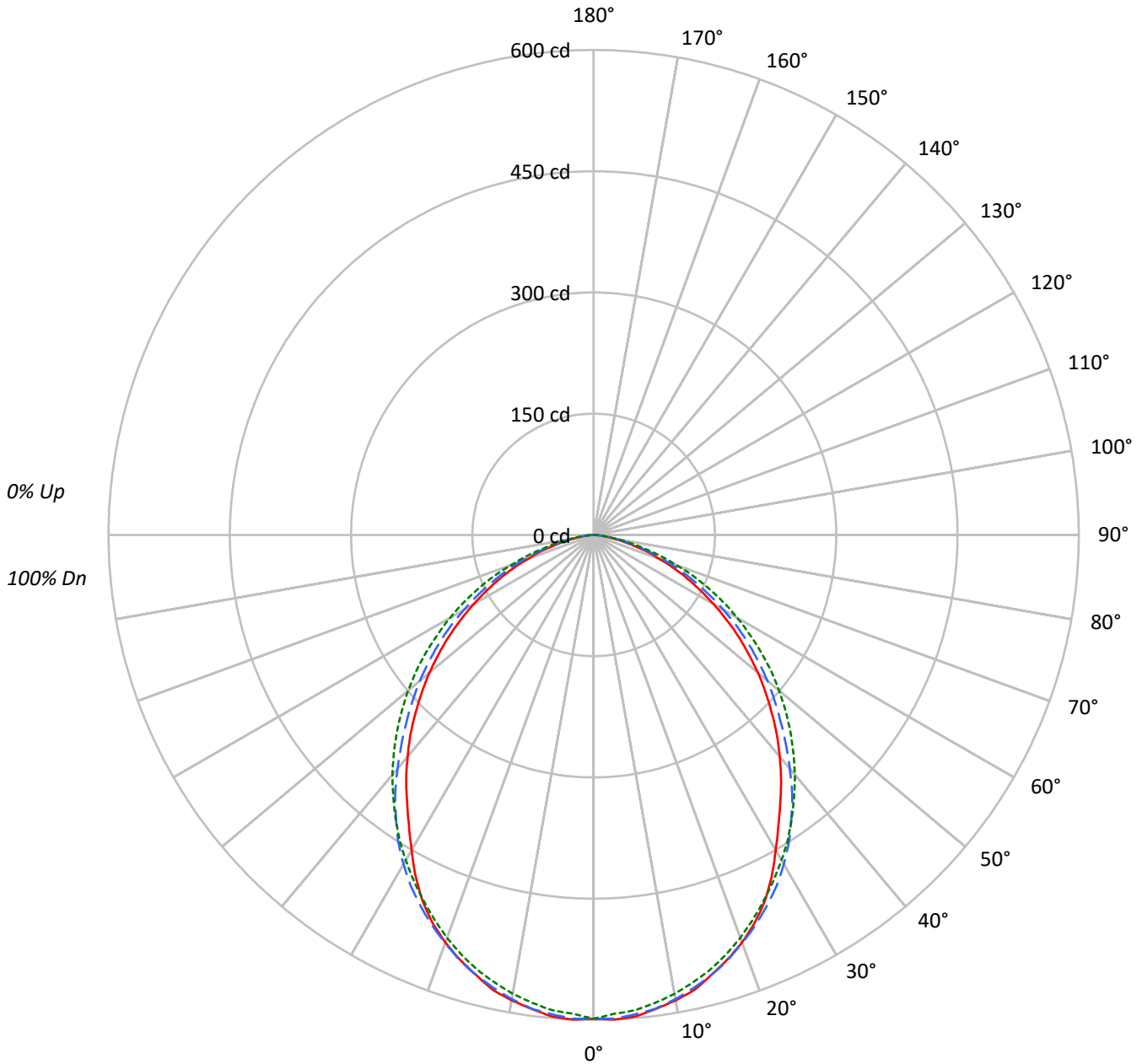
Lumens per Lamp: N/A
Luminaire Lumens: 1384.0 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	3221	3221	3221
5°	3230	3216	3189
10°	3195	3187	3151
15°	3139	3139	3103
20°	3073	3076	3037
25°	2972	3008	2960
30°	2798	2924	2888
35°	2644	2802	2807
40°	2515	2651	2720
45°	2372	2490	2618
50°	2220	2347	2507
55°	2047	2183	2371
60°	1844	1992	2206
65°	1628	1771	2006
70°	1356	1509	1704
75°	1067	1204	1335
80°	762	849	942
85°	494	494	469



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.4	4.1
10°-20°	158.3	11.4
20°-30°	231.4	16.7
30°-40°	262.6	19.0
40°-50°	253.5	18.3
50°-60°	209.1	15.1
60°-70°	139.3	10.1
70°-80°	62.3	4.5
80°-90°	11.1	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°	446.0	32.2
0°-40°	708.6	51.2
0°-60°	1171.3	84.6
0°-90°	1384.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1384.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	598	598	598	598	598	
5°	598	598	595	592	590	57
15°	563	565	563	561	557	159
25°	500	504	507	503	498	229
35°	402	408	426	429	427	252
45°	312	317	327	342	344	240
55°	218	222	233	246	253	195
65°	128	131	139	149	158	127
75°	51	54	58	61	64	56
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°	598.5	598.5	598.5	598.5	598.5
2.5°	600.2	600.4	599.0	595.3	593.0
5°	597.9	597.6	595.3	592.1	590.3
7.5°	591.2	591.6	591.0	586.4	583.8
10°	584.7	585.0	583.1	579.5	576.5
12.5°	576.5	576.2	573.7	571.9	567.0
15°	563.4	564.7	563.4	560.8	556.9
17.5°	550.7	550.7	551.6	547.3	544.3
20°	536.5	537.1	537.1	533.7	530.3
22.5°	519.9	522.0	522.7	519.0	514.8
25°	500.4	504.3	506.6	502.9	498.5
27.5°	476.7	482.7	489.6	486.8	482.0
30°	450.2	459.0	470.5	468.2	464.7
32.5°	425.2	433.9	449.8	448.9	447.0
35°	402.4	407.9	426.5	428.8	427.2
37.5°	380.8	385.8	403.3	408.6	407.2
40°	358.0	363.5	377.3	386.8	387.2
42.5°	335.5	340.8	352.0	365.6	365.6
45°	311.6	316.9	327.2	342.2	344.0
47.5°	288.1	293.6	303.8	318.7	321.7
50°	265.1	270.2	280.3	294.8	299.4
52.5°	241.2	246.7	256.6	270.0	276.6
55°	218.2	221.9	232.7	245.6	252.7
57.5°	194.3	197.8	209.9	221.0	228.3
60°	171.3	175.7	185.1	196.4	204.9
62.5°	149.2	153.8	161.9	171.8	181.4
65°	127.8	131.3	139.1	149.0	157.5
67.5°	107.2	110.1	118.0	124.9	133.8
70°	86.2	90.1	95.9	102.6	108.3
72.5°	69.4	71.1	75.9	80.7	86.7
75°	51.3	54.0	57.9	60.7	64.2
77.5°	36.8	38.4	40.7	43.0	46.2
80°	24.6	25.3	27.4	27.8	30.4
82.5°	14.9	15.4	15.9	16.1	17.0
85°	8.0	8.0	8.0	7.6	7.6
87.5°	4.6	4.6	3.9	3.2	2.3
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)