

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: P554491

Luminaire Tested: **FUSL-12-2-LD4-1STD-40-UNV-80-94-EDD**

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: P554491
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-40-UNV-80-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

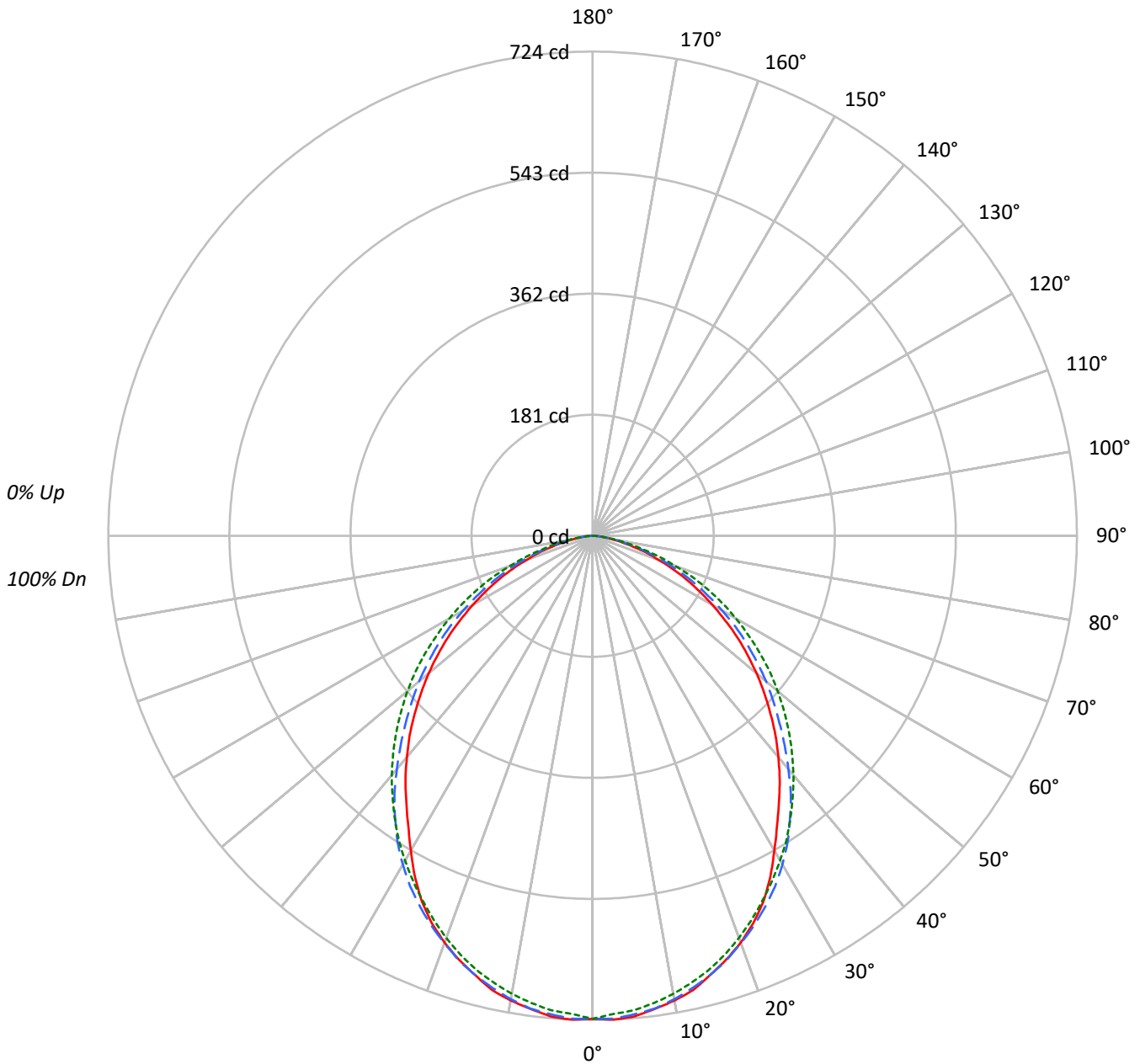
Lumens per Lamp: N/A
Luminaire Lumens: 1670.0 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	3887	3887	3887
5°	3897	3881	3848
10°	3856	3845	3801
15°	3788	3788	3744
20°	3707	3712	3664
25°	3586	3630	3572
30°	3376	3528	3484
35°	3190	3382	3387
40°	3035	3199	3282
45°	2862	3005	3159
50°	2678	2832	3025
55°	2471	2635	2861
60°	2225	2405	2661
65°	1965	2138	2421
70°	1637	1821	2057
75°	1287	1454	1609
80°	921	1023	1134
85°	599	599	568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.0	4.1
10°-20°	191.0	11.4
20°-30°	279.2	16.7
30°-40°	316.9	19.0
40°-50°	305.9	18.3
50°-60°	252.3	15.1
60°-70°	168.0	10.1
70°-80°	75.2	4.5
80°-90°	13.4	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°	538.2	32.2
0°-40°	855.1	51.2
0°-60°	1413.3	84.6
0°-90°	1670.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1670.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	722	722	722	722	722	
5°	721	721	718	714	712	68
15°	680	681	680	677	672	192
25°	604	608	611	607	602	276
35°	486	492	515	518	516	304
45°	376	382	395	413	415	290
55°	263	268	281	296	305	235
65°	154	158	168	180	190	153
75°	62	65	70	73	77	68
85°	10	10	10	9	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	722.2	722.2	722.2	722.2	722.2
2.5°	724.2	724.5	722.8	718.3	715.6
5°	721.4	721.1	718.3	714.5	712.2
7.5°	713.4	713.9	713.1	707.5	704.5
10°	705.6	705.9	703.6	699.2	695.6
12.5°	695.6	695.3	692.3	690.0	684.2
15°	679.8	681.4	679.8	676.7	672.0
17.5°	664.5	664.5	665.6	660.4	656.8
20°	647.3	648.1	648.1	644.0	639.8
22.5°	627.3	629.8	630.7	626.2	621.2
25°	603.8	608.5	611.2	606.8	601.5
27.5°	575.2	582.4	590.7	587.4	581.6
30°	543.3	553.8	567.7	564.9	560.7
32.5°	513.0	523.6	542.7	541.6	539.4
35°	485.6	492.2	514.7	517.5	515.5
37.5°	459.5	465.6	486.7	493.0	491.4
40°	432.0	438.7	455.3	466.7	467.2
42.5°	404.8	411.2	424.8	441.2	441.2
45°	376.0	382.3	394.8	412.9	415.1
47.5°	347.7	354.3	366.5	384.6	388.2
50°	319.9	326.0	338.2	355.7	361.3
52.5°	291.1	297.7	309.6	325.7	333.8
55°	263.3	267.8	280.8	296.3	304.9
57.5°	234.5	238.6	253.3	266.6	275.5
60°	206.7	212.0	223.4	237.0	247.2
62.5°	180.1	185.6	195.3	207.3	218.9
65°	154.3	158.4	167.9	179.8	190.1
67.5°	129.3	132.9	142.3	150.7	161.5
70°	104.0	108.8	115.7	123.7	130.7
72.5°	83.8	85.7	91.6	97.4	104.6
75°	61.9	65.2	69.9	73.2	77.4
77.5°	44.4	46.3	49.1	51.9	55.8
80°	29.7	30.5	33.0	33.6	36.6
82.5°	18.0	18.6	19.1	19.4	20.5
85°	9.7	9.7	9.7	9.2	9.2
87.5°	5.5	5.5	4.7	3.9	2.8
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)