

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: P554529

Luminaire Tested: **FUSL-12-2-LD4-1STD-40-UNV-93-84-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: P554529
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-93-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

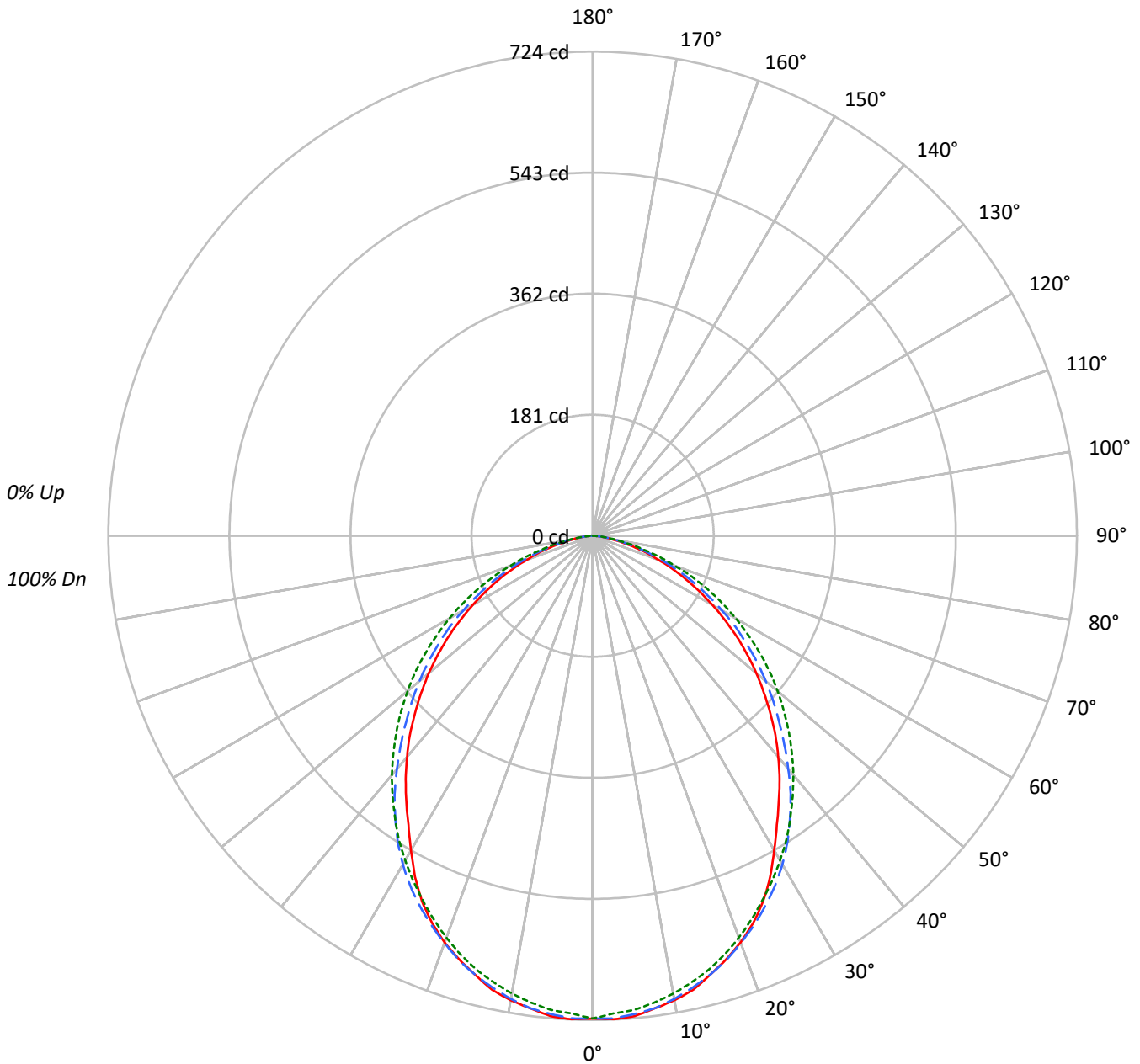
Lumens per Lamp: N/A
Luminaire Lumens: 1669.0 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	3885	3885	3885
5°	3895	3878	3846
10°	3854	3843	3799
15°	3785	3785	3742
20°	3705	3710	3662
25°	3583	3628	3570
30°	3374	3526	3483
35°	3188	3380	3385
40°	3033	3197	3281
45°	2860	3003	3157
50°	2677	2830	3023
55°	2470	2633	2859
60°	2224	2403	2660
65°	1964	2137	2418
70°	1637	1819	2055
75°	1285	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°	190.9	11.4
20°-30°	279.0	16.7
30°-40°	316.7	19.0
40°-50°	305.7	18.3
50°-60°	252.2	15.1
60°-70°	167.9	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°	537.9	32.2
0°-40°	854.6	51.2
0°-60°	1412.5	84.6
0°-90°	1669.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1669.0	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°	679	681	679	676	672	192
25°	603	608	611	606	601	276
35°	485	492	514	517	515	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°	721.8	721.8	721.8	721.8	721.8
2.5°	723.7	724.0	722.4	717.9	715.1
5°	721.0	720.7	717.9	714.0	711.8
7.5°	712.9	713.5	712.6	707.1	704.1
10°	705.2	705.4	703.2	698.8	695.2
12.5°	695.2	694.9	691.9	689.6	683.8
15°	679.4	681.0	679.4	676.3	671.6
17.5°	664.1	664.1	665.2	660.0	656.4
20°	646.9	647.8	647.8	643.6	639.4
22.5°	627.0	629.5	630.3	625.9	620.9
25°	603.4	608.1	610.9	606.4	601.2
27.5°	574.8	582.0	590.4	587.0	581.2
30°	542.9	553.5	567.3	564.6	560.4
32.5°	512.7	523.3	542.4	541.3	539.1
35°	485.3	491.9	514.4	517.2	515.2
37.5°	459.2	465.3	486.4	492.8	491.1
40°	431.7	438.4	455.0	466.4	467.0
42.5°	404.6	411.0	424.5	440.9	440.9
45°	375.7	382.1	394.6	412.6	414.8
47.5°	347.5	354.1	366.3	384.3	387.9
50°	319.7	325.8	338.0	355.5	361.0
52.5°	290.9	297.5	309.5	325.5	333.6
55°	263.2	267.6	280.6	296.2	304.7
57.5°	234.3	238.5	253.2	266.5	275.4
60°	206.6	211.9	223.2	236.8	247.1
62.5°	180.0	185.5	195.2	207.1	218.8
65°	154.2	158.3	167.8	179.7	189.9
67.5°	129.2	132.8	142.3	150.6	161.4
70°	104.0	108.7	115.6	123.7	130.6
72.5°	83.7	85.7	91.5	97.3	104.5
75°	61.8	65.2	69.9	73.2	77.4
77.5°	44.4	46.3	49.1	51.9	55.7
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)