

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: P554547

Luminaire Tested: **FUSL-12-2-LD4-1STD-50-UNV-80-85-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: P554547
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-50-UNV-80-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

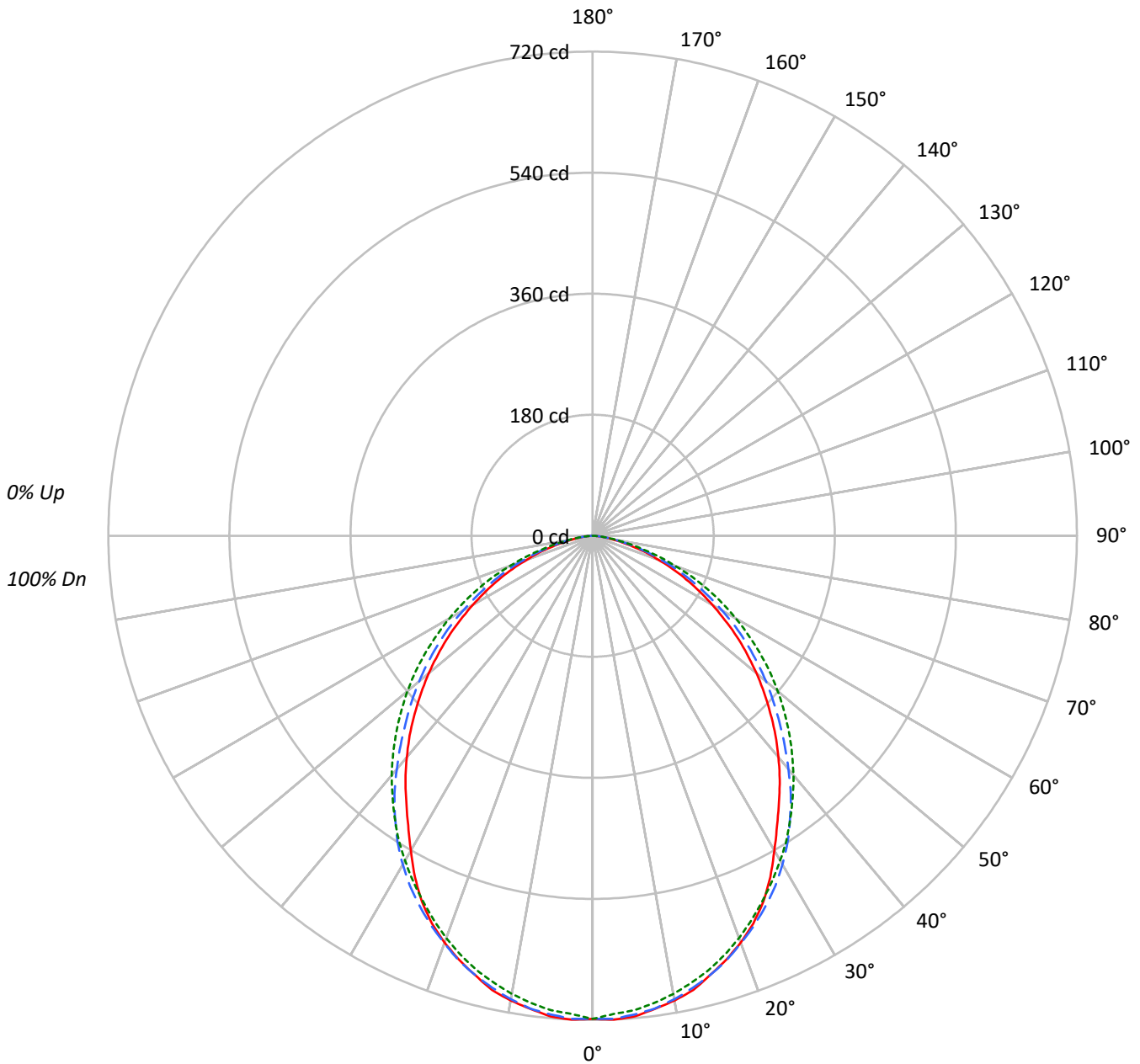
Lumens per Lamp: N/A
Luminaire Lumens: 1661.0 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
Input Voltage (V): NR
Input Current (Ain): 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°	3866	3866	3866
5°	3876	3860	3827
10°	3835	3824	3781
15°	3767	3767	3724
20°	3687	3692	3645
25°	3566	3611	3553
30°	3358	3509	3466
35°	3173	3363	3369
40°	3019	3182	3265
45°	2846	2989	3142
50°	2664	2817	3008
55°	2457	2621	2846
60°	2213	2392	2647
65°	1954	2127	2407
70°	1629	1811	2046
75°	1279	1445	1601
80°	914	1017	1128
85°	599	599	562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	4.1
10°-20°	190.0	11.4
20°-30°	277.7	16.7
30°-40°	315.2	19.0
40°-50°	304.3	18.3
50°-60°	251.0	15.1
60°-70°	167.1	10.1
70°-80°	74.8	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°	535.3	32.2
0°-40°	850.5	51.2
0°-60°	1405.7	84.6
0°-90°	1661.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1661.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	718	718	718	718	718	
5°	718	717	714	711	708	68
15°	676	678	676	673	668	191
25°	600	605	608	604	598	275
35°	483	490	512	515	513	303
45°	374	380	393	411	413	289
55°	262	266	279	295	303	234
65°	153	158	167	179	189	152
75°	62	65	70	73	77	67
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°	718.3	718.3	718.3	718.3	718.3
2.5°	720.3	720.5	718.9	714.5	711.7
5°	717.5	717.2	714.5	710.6	708.4
7.5°	709.5	710.1	709.2	703.7	700.7
10°	701.8	702.1	699.8	695.4	691.8
12.5°	691.8	691.6	688.5	686.3	680.5
15°	676.1	677.8	676.1	673.1	668.4
17.5°	660.9	660.9	662.0	656.8	653.2
20°	643.8	644.7	644.7	640.5	636.4
22.5°	624.0	626.4	627.3	622.9	617.9
25°	600.5	605.2	608.0	603.5	598.3
27.5°	572.1	579.3	587.5	584.2	578.4
30°	540.3	550.8	564.6	561.9	557.7
32.5°	510.3	520.7	539.8	538.7	536.5
35°	482.9	489.6	511.9	514.7	512.7
37.5°	457.0	463.1	484.0	490.4	488.7
40°	429.7	436.3	452.9	464.2	464.7
42.5°	402.6	409.0	422.5	438.8	438.8
45°	373.9	380.3	392.7	410.6	412.8
47.5°	345.8	352.4	364.6	382.5	386.1
50°	318.2	324.3	336.4	353.8	359.3
52.5°	289.5	296.1	308.0	324.0	332.0
55°	261.9	266.3	279.3	294.7	303.3
57.5°	233.2	237.3	252.0	265.2	274.0
60°	205.6	210.8	222.2	235.7	245.9
62.5°	179.1	184.6	194.3	206.1	217.7
65°	153.4	157.6	167.0	178.8	189.0
67.5°	128.6	132.2	141.6	149.8	160.6
70°	103.5	108.2	115.1	123.1	130.0
72.5°	83.3	85.3	91.1	96.9	104.0
75°	61.5	64.9	69.5	72.9	77.0
77.5°	44.2	46.1	48.8	51.6	55.5
80°	29.5	30.4	32.8	33.4	36.4
82.5°	17.9	18.5	19.0	19.3	20.4
85°	9.7	9.7	9.7	9.1	9.1
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)