

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: P555240

Luminaire Tested: **FUSL-12-2-LD4-2STD-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: P555240
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-LD4-2STD-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

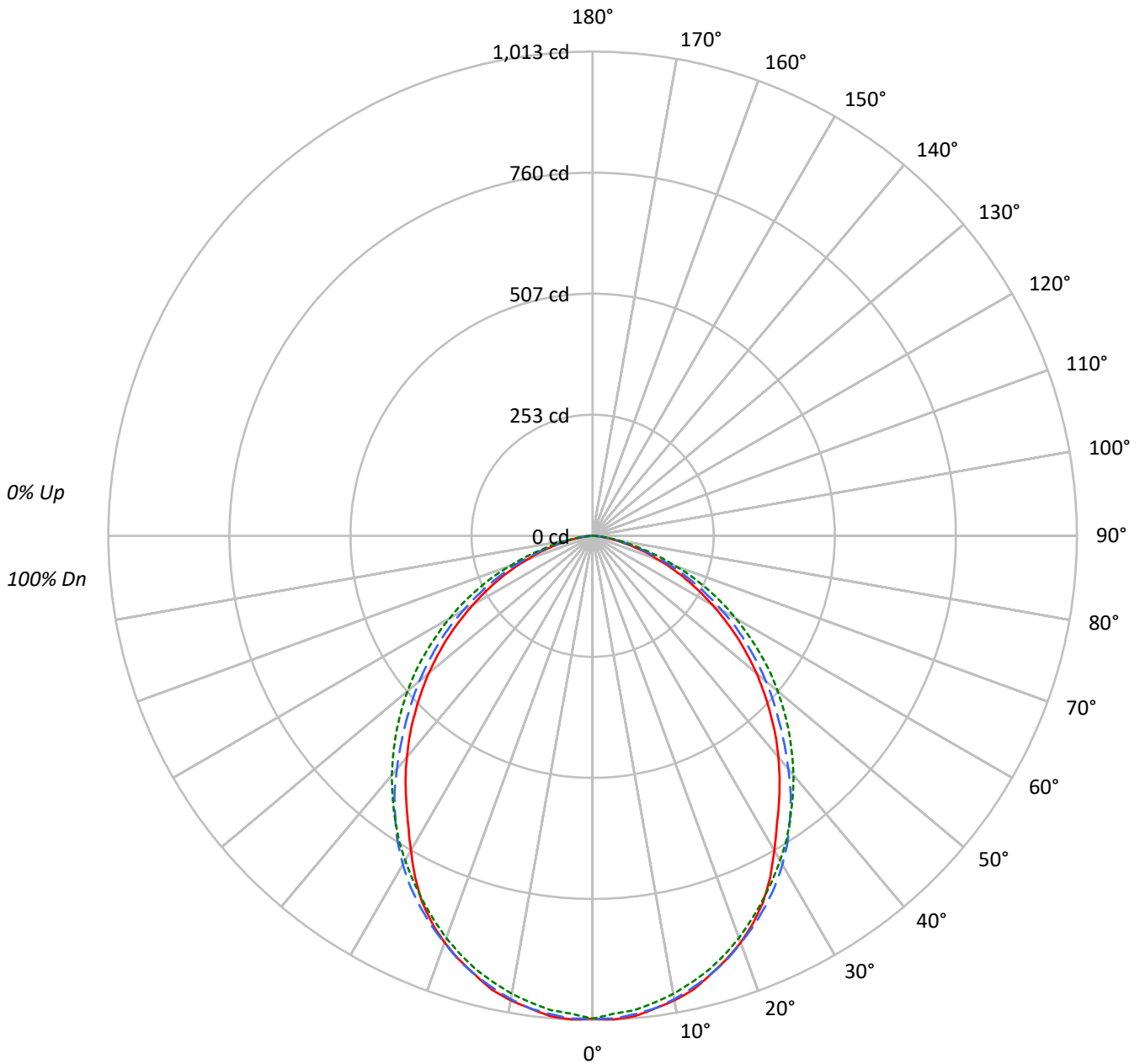
Lumens per Lamp: N/A
Luminaire Lumens: 2336.0 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	5437	5437	5437
5°	5452	5428	5383
10°	5394	5379	5317
15°	5298	5298	5238
20°	5186	5192	5126
25°	5015	5077	4997
30°	4722	4935	4875
35°	4462	4731	4738
40°	4246	4475	4592
45°	4003	4204	4419
50°	3747	3961	4231
55°	3456	3686	4002
60°	3112	3363	3722
65°	2748	2990	3386
70°	2290	2546	2877
75°	1799	2034	2252
80°	1286	1432	1587
85°	840	840	790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	4.1
10°-20°	267.2	11.4
20°-30°	390.5	16.7
30°-40°	443.3	19.0
40°-50°	427.9	18.3
50°-60°	353.0	15.1
60°-70°	235.0	10.1
70°-80°	105.2	4.5
80°-90°	18.8	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°	752.8	32.2
0°-40°	1196.1	51.2
0°-60°	1976.9	84.6
0°-90°	2336.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2336.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1010	1010	1010	1010	1010	
5°	1009	1009	1005	999	996	96
15°	951	953	951	947	940	268
25°	844	851	855	849	841	387
35°	679	688	720	724	721	426
45°	526	535	552	578	581	406
55°	368	374	393	414	426	329
65°	216	222	235	252	266	214
75°	86	91	98	102	108	95
85°	14	14	14	13	13	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1010.3	1010.3	1010.3	1010.3	1010.3
2.5°	1013.0	1013.4	1011.0	1004.8	1000.9
5°	1009.1	1008.7	1004.8	999.4	996.3
7.5°	997.8	998.6	997.5	989.7	985.4
10°	987.0	987.4	984.3	978.0	973.0
12.5°	973.0	972.6	968.3	965.2	957.1
15°	950.9	953.2	950.9	946.6	940.0
17.5°	929.5	929.5	931.1	923.7	918.7
20°	905.5	906.6	906.6	900.8	895.0
22.5°	877.5	881.0	882.2	876.0	869.0
25°	844.5	851.1	855.0	848.8	841.4
27.5°	804.6	814.7	826.3	821.6	813.5
30°	759.9	774.7	794.1	790.2	784.4
32.5°	717.6	732.4	759.2	757.6	754.5
35°	679.2	688.5	720.0	723.8	721.1
37.5°	642.7	651.3	680.8	689.7	687.3
40°	604.3	613.6	636.9	652.8	653.6
42.5°	566.3	575.2	594.2	617.1	617.1
45°	525.9	534.8	552.3	577.5	580.6
47.5°	486.3	495.6	512.7	537.9	543.0
50°	447.5	456.0	473.1	497.6	505.3
52.5°	407.1	416.4	433.1	455.6	466.9
55°	368.3	374.5	392.8	414.5	426.5
57.5°	328.0	333.8	354.3	373.0	385.4
60°	289.1	296.5	312.4	331.4	345.8
62.5°	251.9	259.6	273.2	289.9	306.2
65°	215.8	221.6	234.8	251.5	265.9
67.5°	180.9	185.9	199.1	210.7	225.9
70°	145.5	152.1	161.8	173.1	182.8
72.5°	117.2	119.9	128.1	136.2	146.3
75°	86.5	91.2	97.8	102.5	108.3
77.5°	62.1	64.8	68.7	72.6	78.0
80°	41.5	42.7	46.2	47.0	51.2
82.5°	25.2	26.0	26.8	27.2	28.7
85°	13.6	13.6	13.6	12.8	12.8
87.5°	7.8	7.8	6.6	5.4	3.9
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)