

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: P555047

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-93-87-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: P555047
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-LD4-2LO-40-UNV-93-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

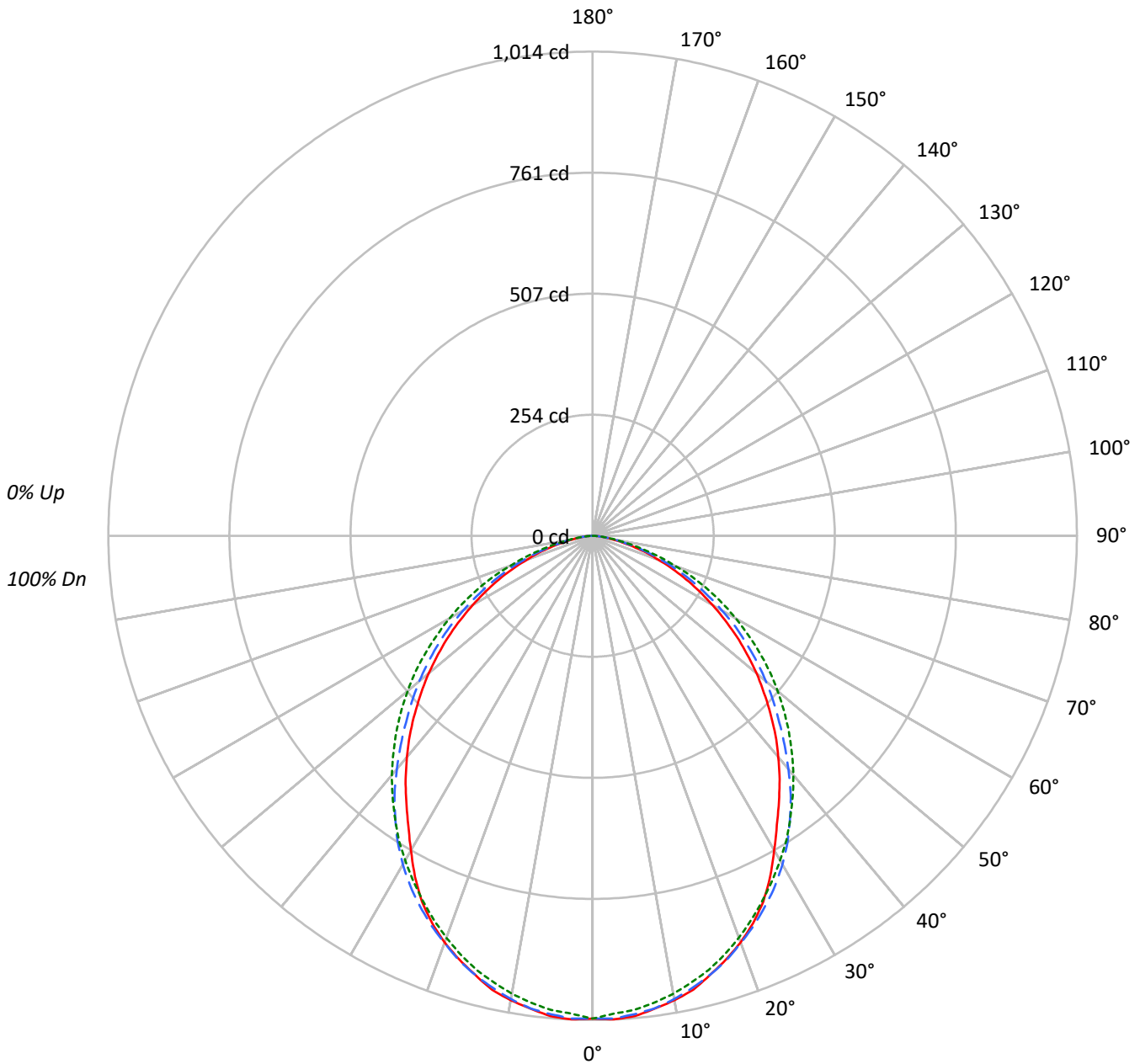
Lumens per Lamp: N/A
Luminaire Lumens: 2338.0 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	5442	5442	5442
5°	5457	5433	5387
10°	5398	5384	5322
15°	5303	5303	5242
20°	5190	5197	5131
25°	5020	5081	5001
30°	4727	4939	4878
35°	4466	4734	4742
40°	4249	4478	4595
45°	4006	4207	4423
50°	3750	3965	4235
55°	3459	3689	4006
60°	3115	3366	3725
65°	2751	2993	3389
70°	2293	2549	2880
75°	1801	2036	2254
80°	1289	1432	1590
85°	840	840	790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	4.1
10°-20°	267.4	11.4
20°-30°	390.8	16.7
30°-40°	443.6	19.0
40°-50°	428.2	18.3
50°-60°	353.3	15.1
60°-70°	235.3	10.1
70°-80°	105.3	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°	753.5	32.2
0°-40°	1197.1	51.2
0°-60°	1978.6	84.6
0°-90°	2338.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2338.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1011	1011	1011	1011	1011	
5°	1010	1010	1006	1000	997	96
15°	952	954	952	947	941	268
25°	845	852	856	850	842	387
35°	680	689	721	724	722	426
45°	526	535	553	578	581	406
55°	369	375	393	415	427	329
65°	216	222	235	252	266	214
75°	87	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°	1011.1	1011.1	1011.1	1011.1	1011.1
2.5°	1013.8	1014.2	1011.9	1005.7	1001.8
5°	1010.0	1009.6	1005.7	1000.2	997.1
7.5°	998.7	999.5	998.3	990.5	986.3
10°	987.8	988.2	985.1	978.9	973.8
12.5°	973.8	973.4	969.2	966.1	957.9
15°	951.7	954.0	951.7	947.4	940.8
17.5°	930.3	930.3	931.9	924.5	919.5
20°	906.2	907.4	907.4	901.6	895.8
22.5°	878.3	881.8	882.9	876.7	869.7
25°	845.3	851.9	855.7	849.5	842.2
27.5°	805.2	815.3	827.0	822.3	814.2
30°	760.6	775.3	794.8	790.9	785.0
32.5°	718.2	733.0	759.8	758.2	755.1
35°	679.8	689.1	720.6	724.5	721.7
37.5°	643.3	651.8	681.3	690.3	687.9
40°	604.8	614.1	637.4	653.4	654.1
42.5°	566.7	575.7	594.7	617.6	617.6
45°	526.3	535.3	552.8	578.0	581.1
47.5°	486.7	496.0	513.1	538.4	543.4
50°	447.9	456.4	473.5	498.0	505.8
52.5°	407.5	416.8	433.5	456.0	467.3
55°	368.6	374.9	393.1	414.9	426.9
57.5°	328.2	334.1	354.7	373.3	385.7
60°	289.4	296.8	312.7	331.7	346.1
62.5°	252.1	259.9	273.5	290.2	306.5
65°	216.0	221.8	235.0	251.7	266.1
67.5°	181.0	186.1	199.3	210.9	226.1
70°	145.7	152.3	162.0	173.2	183.0
72.5°	117.3	120.0	128.2	136.3	146.4
75°	86.6	91.3	97.9	102.5	108.4
77.5°	62.2	64.9	68.8	72.6	78.1
80°	41.6	42.7	46.2	47.0	51.3
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)