

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: P558333

Luminaire Tested: **FUSL-12-4-LD4-3STD-40-UNV-80-96-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: P558333
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-12-4-LD4-3STD-40-UNV-80-96-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

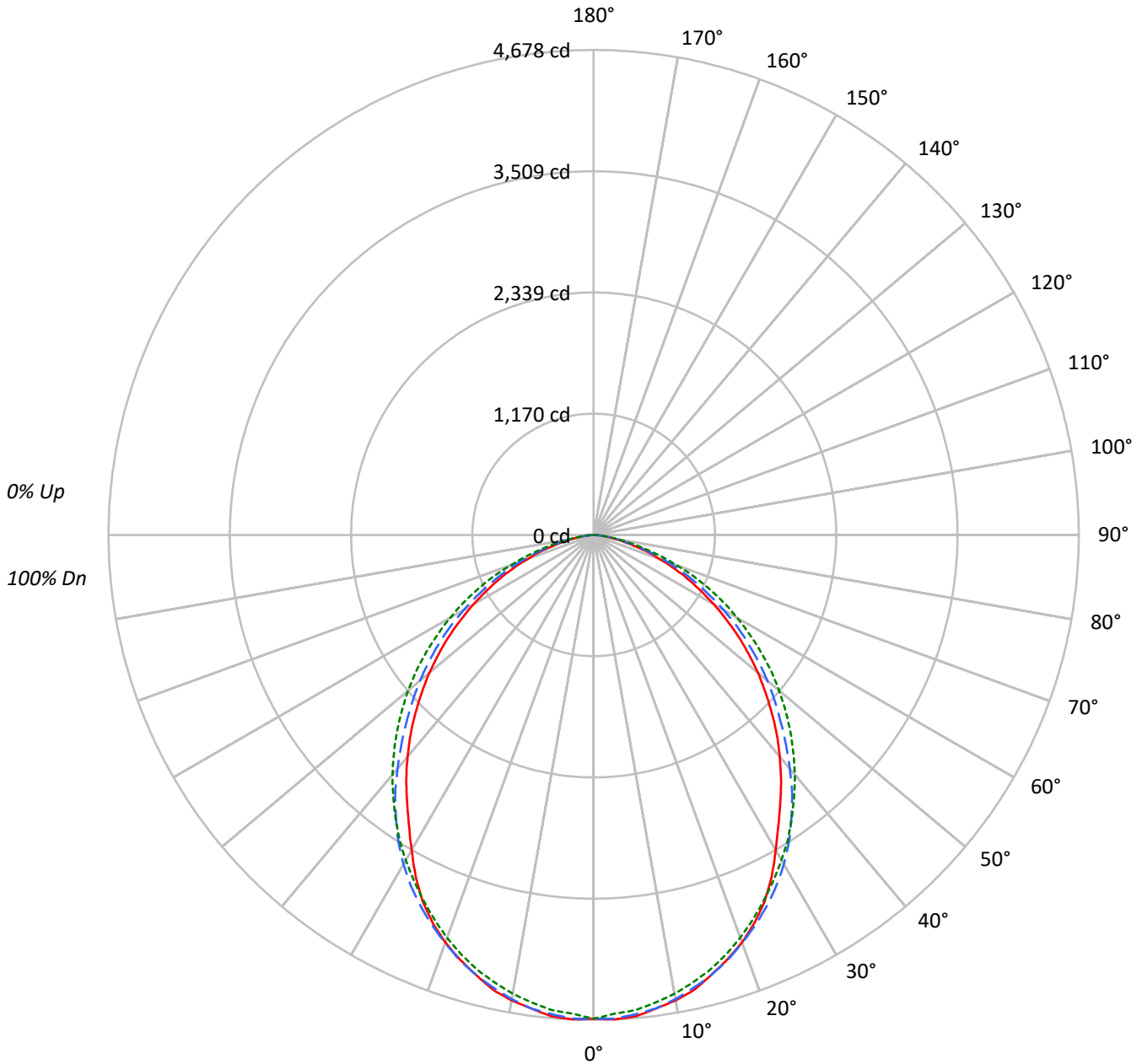
Lumens per Lamp: N/A
Luminaire Lumens: 10789.0 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	12556	12556	12556
5°	12589	12536	12430
10°	12456	12422	12280
15°	12235	12235	12095
20°	11976	11991	11837
25°	11582	11725	11539
30°	10906	11396	11257
35°	10305	10923	10941
40°	9804	10333	10604
45°	9243	9707	10205
50°	8652	9148	9771
55°	7981	8511	9242
60°	7187	7766	8596
65°	6346	6905	7819
70°	5289	5881	6643
75°	4156	4696	5200
80°	2972	3305	3667
85°	1936	1936	1828



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.3	4.1
10°-20°	1234.2	11.4
20°-30°	1803.5	16.7
30°-40°	2047.2	19.0
40°-50°	1976.2	18.3
50°-60°	1630.3	15.1
60°-70°	1085.6	10.1
70°-80°	485.8	4.5
80°-90°	86.9	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°	3477.0	32.2
0°-40°	5524.2	51.2
0°-60°	9130.7	84.6
0°-90°	10789.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10789.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4666	4666	4666	4666	4666	
5°	4661	4659	4641	4616	4601	441
15°	4392	4402	4392	4372	4342	1238
25°	3901	3931	3949	3920	3886	1786
35°	3137	3180	3325	3343	3330	1965
45°	2429	2470	2551	2667	2682	1874
55°	1701	1730	1814	1914	1970	1518
65°	997	1024	1084	1162	1228	988
75°	400	421	452	473	500	437
85°	63	63	63	59	59	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4666.0	4666.0	4666.0	4666.0	4666.0
2.5°	4678.5	4680.3	4669.5	4640.9	4622.9
5°	4660.6	4658.8	4640.9	4615.8	4601.4
7.5°	4608.6	4612.2	4606.8	4571.0	4551.2
10°	4558.4	4560.2	4545.9	4517.2	4493.9
12.5°	4493.9	4492.1	4472.4	4458.0	4420.4
15°	4391.7	4402.5	4391.7	4372.0	4341.5
17.5°	4293.1	4293.1	4300.3	4266.2	4242.9
20°	4182.0	4187.4	4187.4	4160.5	4133.6
22.5°	4052.9	4069.1	4074.4	4045.7	4013.5
25°	3900.6	3931.0	3949.0	3920.3	3886.2
27.5°	3715.9	3762.5	3816.3	3794.8	3757.1
30°	3509.8	3577.9	3667.5	3649.6	3622.7
32.5°	3314.4	3382.5	3506.2	3499.0	3484.7
35°	3136.9	3180.0	3325.1	3343.1	3330.5
37.5°	2968.4	3007.9	3144.1	3185.3	3174.6
40°	2791.0	2834.0	2941.5	3015.0	3018.6
42.5°	2615.3	2656.5	2744.4	2850.1	2850.1
45°	2428.9	2470.1	2550.8	2667.3	2681.6
47.5°	2246.0	2289.1	2367.9	2484.5	2507.8
50°	2066.8	2106.2	2185.1	2298.0	2333.9
52.5°	1880.4	1923.4	2000.5	2104.4	2156.4
55°	1701.1	1729.8	1814.0	1914.4	1970.0
57.5°	1514.7	1541.6	1636.6	1722.6	1780.0
60°	1335.4	1369.5	1443.0	1530.8	1597.1
62.5°	1163.4	1199.2	1261.9	1339.0	1414.3
65°	996.6	1023.5	1084.5	1161.6	1227.9
67.5°	835.3	858.6	919.6	973.3	1043.3
70°	672.2	702.7	747.5	799.5	844.3
72.5°	541.3	553.9	591.5	629.2	675.8
75°	399.7	421.2	451.7	473.2	500.1
77.5°	286.8	299.4	317.3	335.2	360.3
80°	191.8	197.2	213.3	216.9	236.6
82.5°	116.5	120.1	123.7	125.5	132.6
85°	62.7	62.7	62.7	59.2	59.2
87.5°	35.9	35.9	30.5	25.1	17.9
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)