

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: P558271

Luminaire Tested: **FUSL-12-4-LD4-3STD-35-UNV-80-97-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: P558271
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-35-UNV-80-97-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

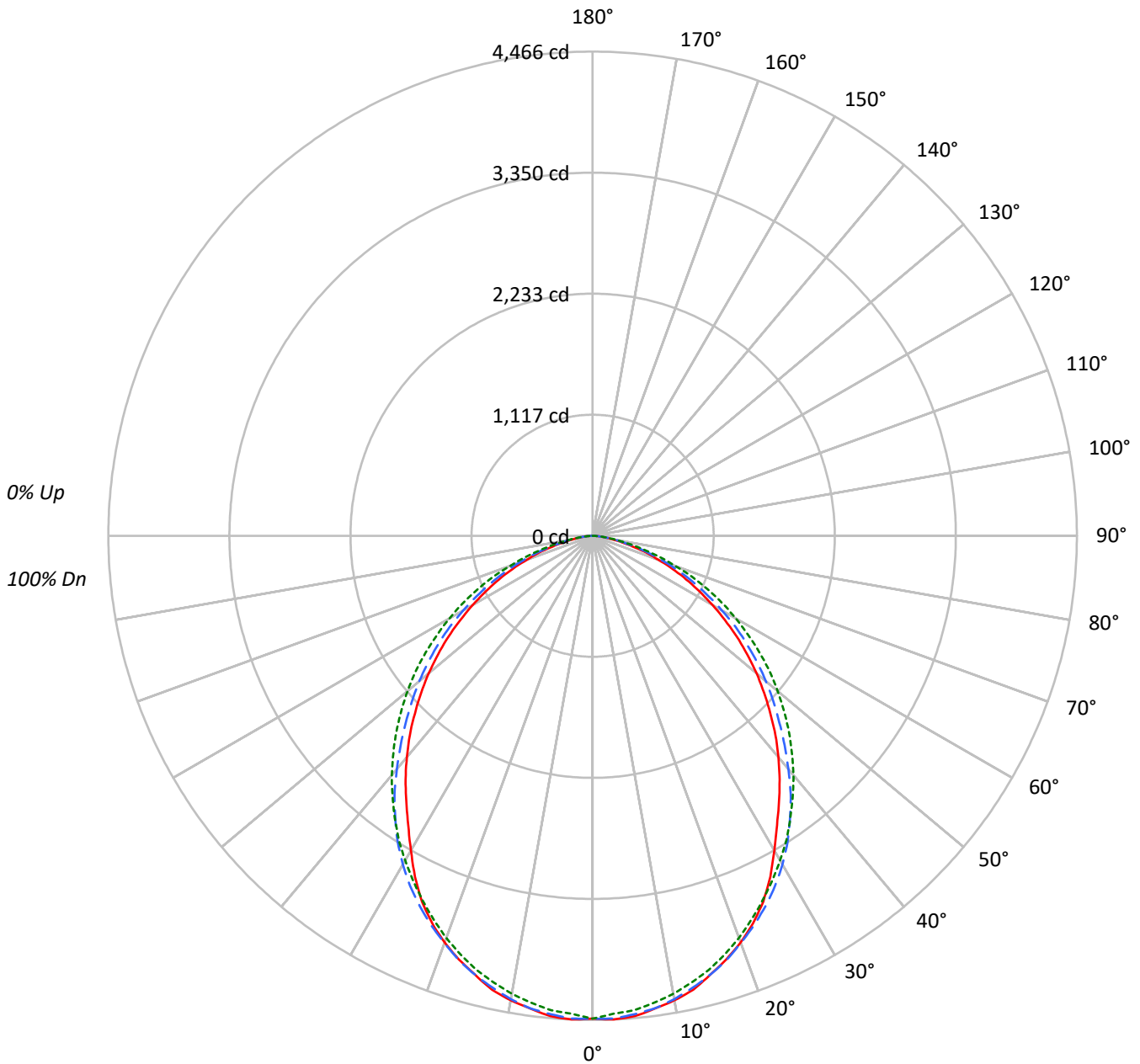
Lumens per Lamp: N/A
Luminaire Lumens: 10299.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
Input Voltage (V): NR
Input Current (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°	11986	11986	11986
5°	12018	11967	11865
10°	11890	11857	11722
15°	11679	11679	11546
20°	11432	11447	11300
25°	11055	11193	11015
30°	10411	10879	10746
35°	9837	10427	10444
40°	9359	9864	10122
45°	8824	9266	9742
50°	8259	8732	9327
55°	7619	8124	8823
60°	6861	7414	8205
65°	6058	6592	7463
70°	5049	5614	6341
75°	3968	4483	4964
80°	2837	3155	3501
85°	1849	1849	1744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.4	4.1
10°-20°	1178.1	11.4
20°-30°	1721.6	16.7
30°-40°	1954.2	19.0
40°-50°	1886.5	18.3
50°-60°	1556.2	15.1
60°-70°	1036.3	10.1
70°-80°	463.7	4.5
80°-90°	83.0	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°	3319.1	32.2
0°-40°	5273.3	51.2
0°-60°	8716.0	84.6
0°-90°	10299.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10299.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4454	4454	4454	4454	4454	
5°	4449	4447	4430	4406	4392	421
15°	4192	4202	4192	4173	4144	1182
25°	3723	3752	3770	3742	3710	1705
35°	2994	3036	3174	3191	3179	1876
45°	2319	2358	2435	2546	2560	1789
55°	1624	1651	1732	1828	1880	1449
65°	951	977	1035	1109	1172	943
75°	382	402	431	452	477	417
85°	60	60	60	56	56	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4454.1	4454.1	4454.1	4454.1	4454.1
2.5°	4466.0	4467.7	4457.5	4430.1	4413.0
5°	4448.9	4447.2	4430.1	4406.1	4392.5
7.5°	4399.3	4402.7	4397.6	4363.4	4344.5
10°	4351.4	4353.1	4339.4	4312.0	4289.8
12.5°	4289.8	4288.1	4269.3	4255.6	4219.6
15°	4192.2	4202.5	4192.2	4173.4	4144.3
17.5°	4098.1	4098.1	4105.0	4072.5	4050.2
20°	3992.0	3997.2	3997.2	3971.5	3945.8
22.5°	3868.8	3884.2	3889.4	3862.0	3831.2
25°	3723.4	3752.5	3769.6	3742.2	3709.7
27.5°	3547.2	3591.6	3643.0	3622.4	3586.5
30°	3350.4	3415.4	3501.0	3483.8	3458.2
32.5°	3163.9	3228.9	3347.0	3340.1	3326.4
35°	2994.5	3035.5	3174.1	3191.2	3179.3
37.5°	2833.6	2871.3	3001.3	3040.7	3030.4
40°	2664.2	2705.3	2808.0	2878.1	2881.5
42.5°	2496.5	2535.9	2619.7	2720.7	2720.7
45°	2318.6	2357.9	2434.9	2546.2	2559.8
47.5°	2144.0	2185.1	2260.4	2371.6	2393.9
50°	1972.9	2010.6	2085.9	2193.7	2227.9
52.5°	1795.0	1836.0	1909.6	2008.9	2058.5
55°	1623.9	1651.2	1731.7	1827.5	1880.5
57.5°	1445.9	1471.6	1562.3	1644.4	1699.1
60°	1274.8	1307.3	1377.5	1461.3	1524.6
62.5°	1110.5	1144.7	1204.6	1278.2	1350.1
65°	951.4	977.1	1035.2	1108.8	1172.1
67.5°	797.4	819.6	877.8	929.1	995.9
70°	641.7	670.8	713.5	763.2	805.9
72.5°	516.8	528.7	564.7	600.6	645.1
75°	381.6	402.1	431.2	451.7	477.4
77.5°	273.8	285.8	302.9	320.0	343.9
80°	183.1	188.2	203.6	207.0	225.9
82.5°	111.2	114.6	118.1	119.8	126.6
85°	59.9	59.9	59.9	56.5	56.5
87.5°	34.2	34.2	29.1	24.0	17.1
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)