

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: P558267

Luminaire Tested: **FUSL-12-4-LD4-3STD-35-UNV-80-94-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: P558267
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-80-94-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

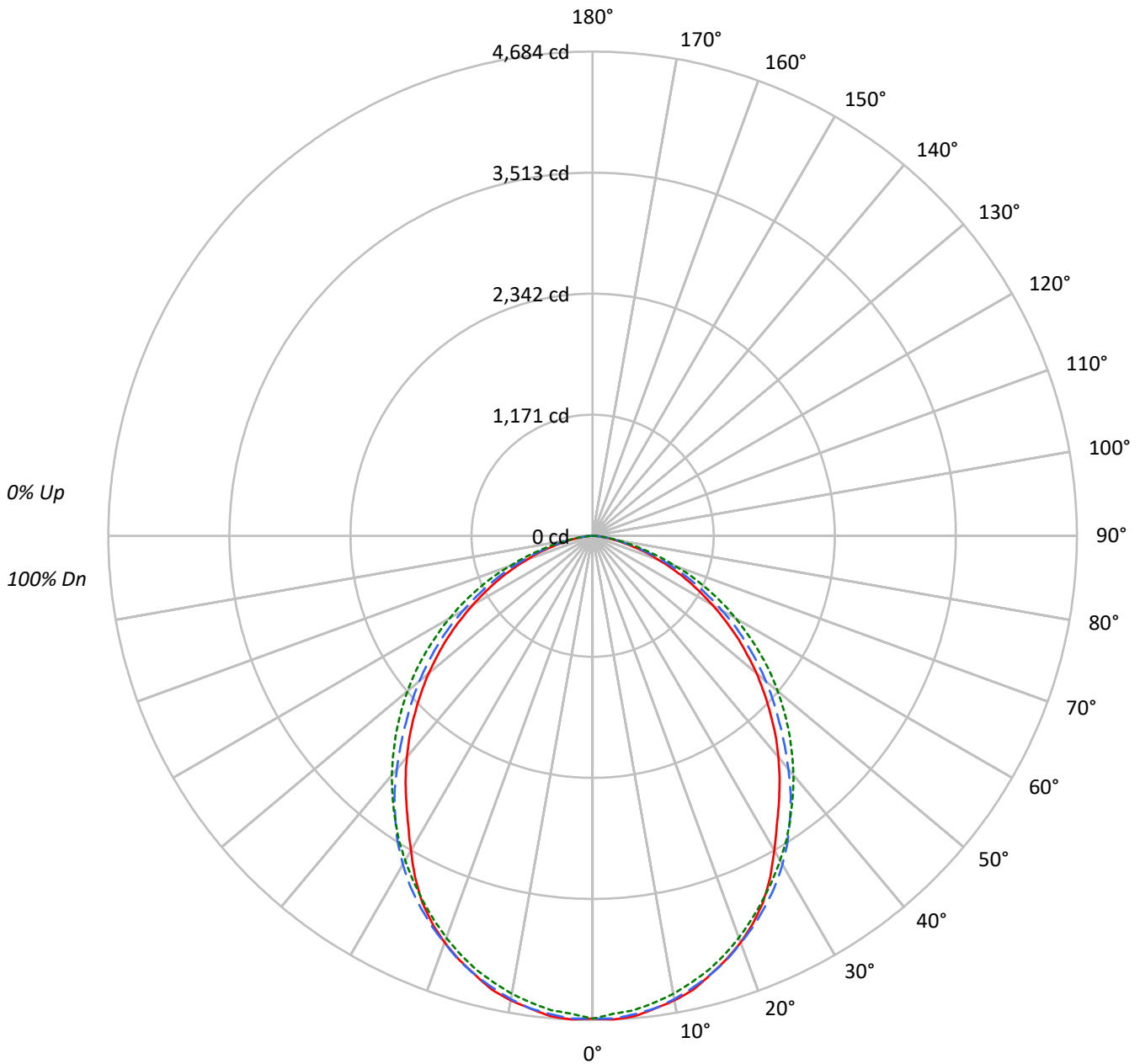
Lumens per Lamp: N/A
Luminaire Lumens: 10801.0 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	12570	12570	12570
5°	12604	12550	12444
10°	12470	12435	12293
15°	12249	12249	12108
20°	11989	12005	11850
25°	11594	11738	11552
30°	10918	11409	11269
35°	10316	10935	10953
40°	9815	10345	10616
45°	9254	9718	10217
50°	8662	9158	9782
55°	7990	8520	9253
60°	7195	7775	8605
65°	6353	6913	7827
70°	5294	5888	6650
75°	4161	4702	5206
80°	2975	3309	3671
85°	1939	1939	1828



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.8	4.1
10°-20°	1235.5	11.4
20°-30°	1805.5	16.7
30°-40°	2049.5	19.0
40°-50°	1978.4	18.3
50°-60°	1632.1	15.1
60°-70°	1086.8	10.1
70°-80°	486.3	4.5
80°-90°	87.0	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°	3480.8	32.2
0°-40°	5530.3	51.2
0°-60°	9140.8	84.6
0°-90°	10801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10801.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4671	4671	4671	4671	4671	
5°	4666	4664	4646	4621	4607	442
15°	4397	4407	4397	4377	4346	1239
25°	3905	3935	3953	3925	3890	1788
35°	3140	3184	3329	3347	3334	1968
45°	2432	2473	2554	2670	2685	1876
55°	1703	1732	1816	1917	1972	1520
65°	998	1025	1086	1163	1229	989
75°	400	422	452	474	501	438
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°	4671.2	4671.2	4671.2	4671.2	4671.2
2.5°	4683.7	4685.5	4674.7	4646.0	4628.1
5°	4665.8	4664.0	4646.0	4620.9	4606.6
7.5°	4613.7	4617.3	4611.9	4576.0	4556.3
10°	4563.5	4565.3	4550.9	4522.2	4498.9
12.5°	4498.9	4497.1	4477.3	4463.0	4425.3
15°	4396.6	4407.4	4396.6	4376.9	4346.3
17.5°	4297.9	4297.9	4305.1	4271.0	4247.6
20°	4186.6	4192.0	4192.0	4165.1	4138.2
22.5°	4057.4	4073.6	4079.0	4050.2	4017.9
25°	3904.9	3935.4	3953.3	3924.6	3890.5
27.5°	3720.1	3766.7	3820.5	3799.0	3761.3
30°	3513.7	3581.9	3671.6	3653.7	3626.7
32.5°	3318.1	3386.3	3510.1	3502.9	3488.6
35°	3140.4	3183.5	3328.8	3346.8	3334.2
37.5°	2971.7	3011.2	3147.6	3188.9	3178.1
40°	2794.1	2837.1	2944.8	3018.4	3022.0
42.5°	2618.2	2659.5	2747.4	2853.3	2853.3
45°	2431.6	2472.9	2553.6	2670.3	2684.6
47.5°	2248.5	2291.6	2370.6	2487.2	2510.5
50°	2069.1	2108.6	2187.5	2300.6	2336.5
52.5°	1882.5	1925.5	2002.7	2106.8	2158.8
55°	1703.0	1731.7	1816.1	1916.6	1972.2
57.5°	1516.4	1543.3	1638.4	1724.5	1782.0
60°	1336.9	1371.0	1444.6	1532.5	1598.9
62.5°	1164.6	1200.5	1263.3	1340.5	1415.9
65°	997.8	1024.7	1085.7	1162.9	1229.3
67.5°	836.2	859.6	920.6	974.4	1044.4
70°	672.9	703.5	748.3	800.4	845.2
72.5°	541.9	554.5	592.2	629.9	676.5
75°	400.2	421.7	452.2	473.8	500.7
77.5°	287.1	299.7	317.6	335.6	360.7
80°	192.0	197.4	213.5	217.1	236.9
82.5°	116.6	120.2	123.8	125.6	132.8
85°	62.8	62.8	62.8	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)