

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: P557750

Luminaire Tested: **FUSL-12-4-LD4-3HI-35-UNV-80-87-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: P557750
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-LD4-3HI-35-UNV-80-87-EDD-90
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

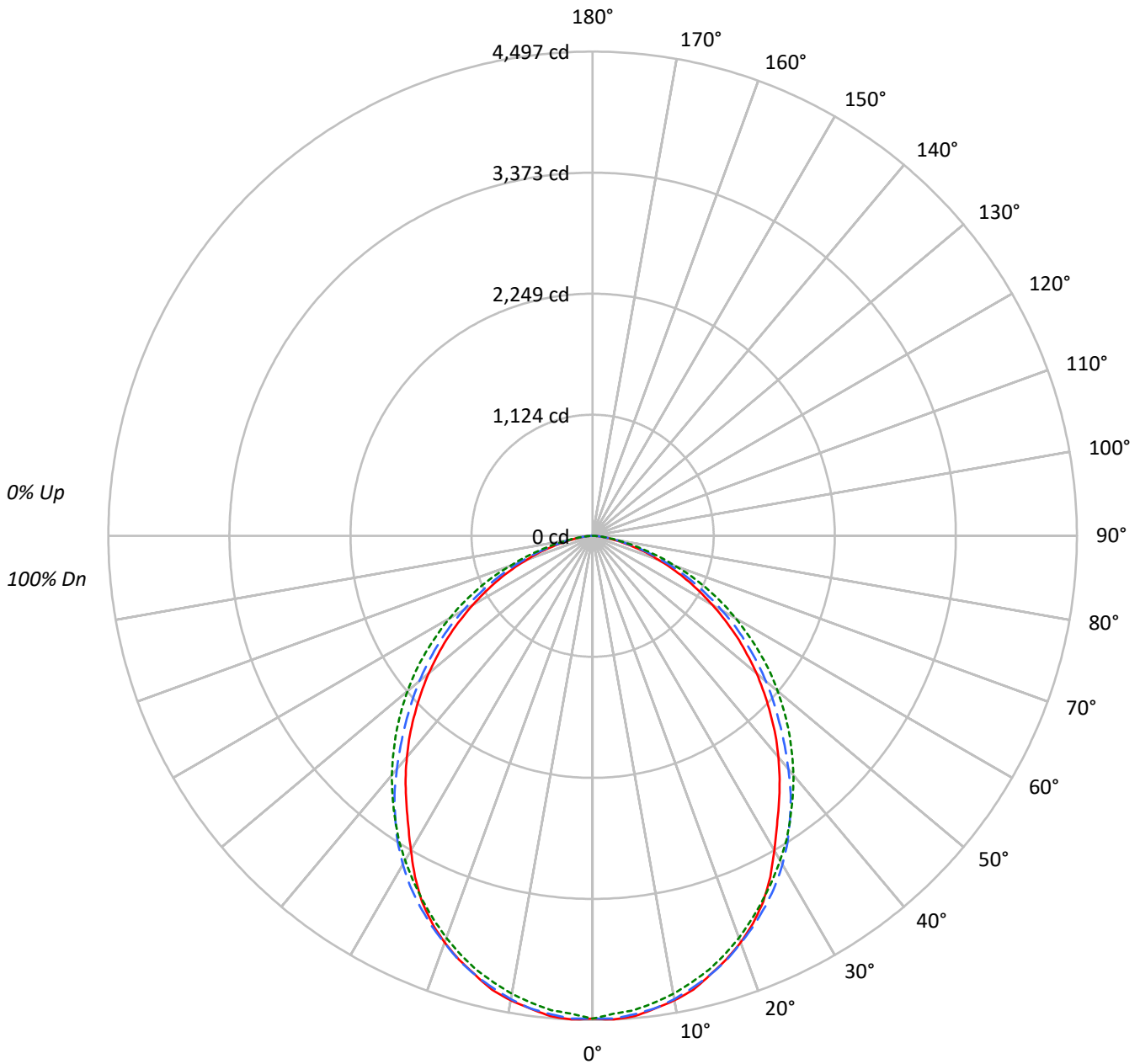
Lumens per Lamp: N/A
Luminaire Lumens: 10370.0 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
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°	12069	12069	12069
5°	12101	12049	11947
10°	11972	11939	11803
15°	11760	11760	11625
20°	11511	11525	11378
25°	11132	11270	11091
30°	10482	10953	10820
35°	9905	10499	10516
40°	9423	9932	10192
45°	8885	9330	9809
50°	8316	8792	9391
55°	7671	8180	8884
60°	6908	7464	8262
65°	6099	6637	7515
70°	5083	5653	6385
75°	3995	4514	4998
80°	2858	3177	3524
85°	1862	1862	1757



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.3	4.1
10°-20°	1186.2	11.4
20°-30°	1733.5	16.7
30°-40°	1967.7	19.0
40°-50°	1899.5	18.3
50°-60°	1566.9	15.1
60°-70°	1043.5	10.1
70°-80°	466.9	4.5
80°-90°	83.5	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°	3342.0	32.2
0°-40°	5309.6	51.2
0°-60°	8776.1	84.6
0°-90°	10370.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10370.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4485	4485	4485	4485	4485	
5°	4480	4478	4461	4436	4423	424
15°	4221	4232	4221	4202	4173	1190
25°	3749	3778	3796	3768	3735	1717
35°	3015	3056	3196	3213	3201	1889
45°	2335	2374	2452	2564	2578	1801
55°	1635	1663	1744	1840	1894	1459
65°	958	984	1042	1116	1180	950
75°	384	405	434	455	481	420
85°	60	60	60	57	57	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4484.8	4484.8	4484.8	4484.8	4484.8
2.5°	4496.8	4498.5	4488.2	4460.6	4443.4
5°	4479.6	4477.9	4460.6	4436.5	4422.7
7.5°	4429.6	4433.1	4427.9	4393.4	4374.5
10°	4381.4	4383.1	4369.3	4341.8	4319.4
12.5°	4319.4	4317.6	4298.7	4284.9	4248.7
15°	4221.2	4231.5	4221.2	4202.2	4172.9
17.5°	4126.4	4126.4	4133.3	4100.5	4078.1
20°	4019.6	4024.7	4024.7	3998.9	3973.1
22.5°	3895.5	3911.0	3916.2	3888.6	3857.6
25°	3749.1	3778.4	3795.6	3768.0	3735.3
27.5°	3571.6	3616.4	3668.1	3647.4	3611.2
30°	3373.5	3438.9	3525.1	3507.9	3482.0
32.5°	3185.7	3251.1	3370.0	3363.1	3349.4
35°	3015.1	3056.5	3196.0	3213.2	3201.2
37.5°	2853.2	2891.1	3022.0	3061.6	3051.3
40°	2682.6	2723.9	2827.3	2897.9	2901.4
42.5°	2513.7	2553.4	2637.8	2739.4	2739.4
45°	2334.6	2374.2	2451.7	2563.7	2577.5
47.5°	2158.8	2200.2	2276.0	2388.0	2410.4
50°	1986.5	2024.4	2100.2	2208.8	2243.2
52.5°	1807.3	1848.7	1922.8	2022.7	2072.7
55°	1635.0	1662.6	1743.6	1840.1	1893.5
57.5°	1455.9	1481.7	1573.0	1655.7	1710.9
60°	1283.6	1316.3	1386.9	1471.4	1535.1
62.5°	1118.2	1152.6	1212.9	1287.0	1359.4
65°	957.9	983.8	1042.4	1116.5	1180.2
67.5°	802.9	825.3	883.9	935.5	1002.7
70°	646.1	675.4	718.5	768.4	811.5
72.5°	520.3	532.4	568.6	604.7	649.5
75°	384.2	404.9	434.2	454.9	480.7
77.5°	275.7	287.7	305.0	322.2	346.3
80°	184.4	189.5	205.0	208.5	227.4
82.5°	112.0	115.4	118.9	120.6	127.5
85°	60.3	60.3	60.3	56.9	56.9
87.5°	34.5	34.5	29.3	24.1	17.2
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)