

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: P557681

Luminaire Tested: **FUSL-12-4-LD4-3HI-30-UNV-80-84-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: P557681
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-30-UNV-80-84-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

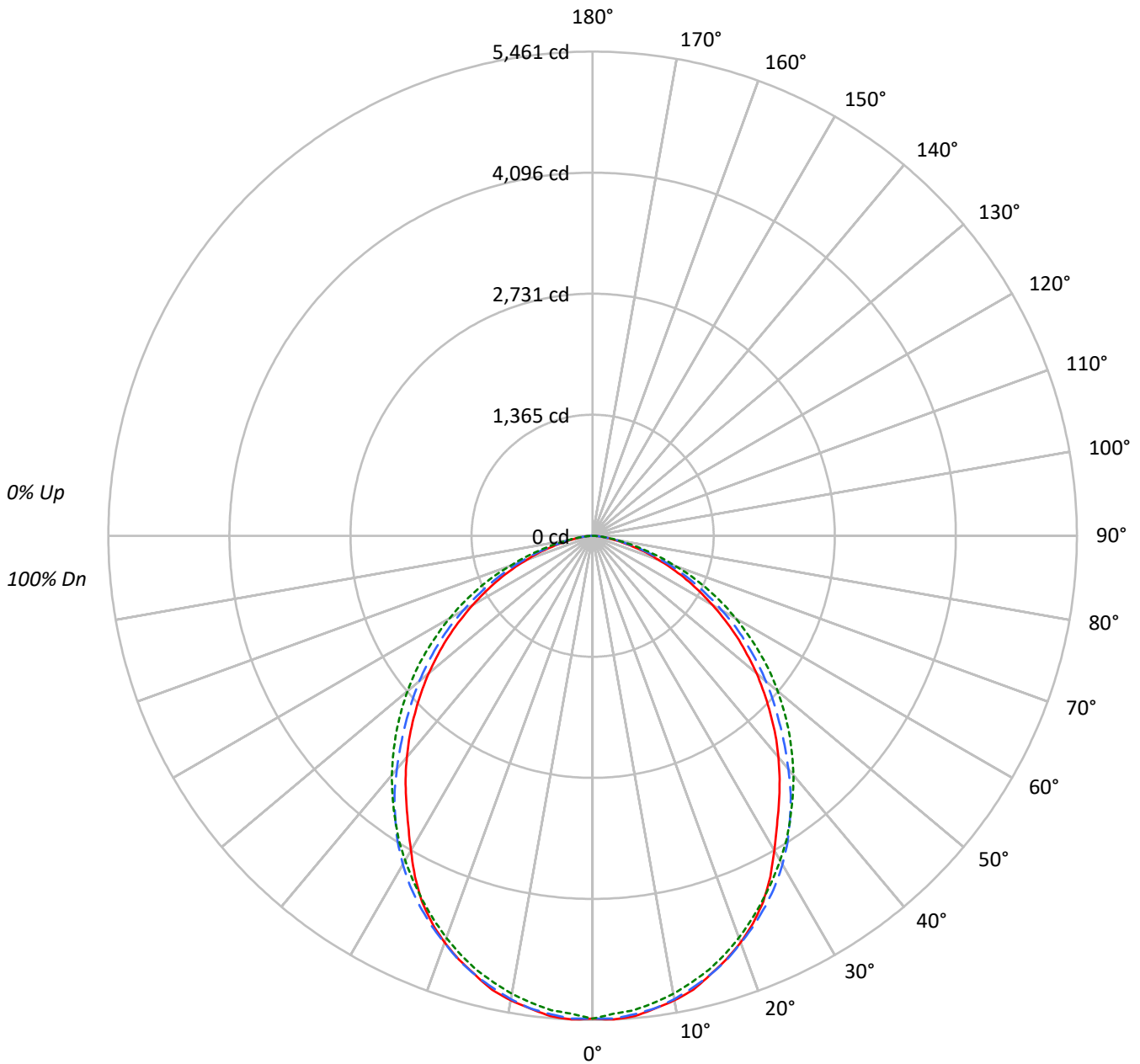
Lumens per Lamp: N/A
Luminaire Lumens: 12593.0 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
Input Voltage (V): NR
Input Current (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°	14655	14655	14655
5°	14695	14632	14508
10°	14538	14499	14333
15°	14281	14281	14117
20°	13978	13996	13816
25°	13518	13685	13468
30°	12729	13302	13139
35°	12028	12750	12770
40°	11443	12061	12377
45°	10789	11330	11912
50°	10099	10677	11404
55°	9316	9934	10788
60°	8389	9065	10033
65°	7407	8060	9126
70°	6173	6865	7754
75°	4851	5481	6069
80°	3470	3859	4280
85°	2260	2260	2130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.8	4.1
10°-20°	1440.5	11.4
20°-30°	2105.1	16.7
30°-40°	2389.5	19.0
40°-50°	2306.7	18.3
50°-60°	1902.9	15.1
60°-70°	1267.1	10.1
70°-80°	567.0	4.5
80°-90°	101.4	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°	4058.4	32.2
0°-40°	6447.8	51.2
0°-60°	10657.4	84.6
0°-90°	12593.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12593.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5446	5446	5446	5446	5446	
5°	5440	5438	5417	5388	5371	515
15°	5126	5139	5126	5103	5067	1445
25°	4553	4588	4609	4576	4536	2085
35°	3662	3712	3881	3902	3887	2294
45°	2835	2883	2977	3113	3130	2187
55°	1986	2019	2117	2234	2299	1772
65°	1163	1195	1266	1356	1433	1153
75°	467	492	527	552	584	510
85°	73	73	73	69	69	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5446.1	5446.1	5446.1	5446.1	5446.1
2.5°	5460.8	5462.9	5450.3	5416.9	5395.9
5°	5439.9	5437.8	5416.9	5387.6	5370.8
7.5°	5379.2	5383.4	5377.1	5335.3	5312.2
10°	5320.6	5322.7	5306.0	5272.5	5245.3
12.5°	5245.3	5243.2	5220.2	5203.4	5159.5
15°	5126.0	5138.6	5126.0	5103.0	5067.4
17.5°	5011.0	5011.0	5019.3	4979.6	4952.4
20°	4881.2	4887.5	4887.5	4856.1	4824.7
22.5°	4730.6	4749.4	4755.7	4722.2	4684.6
25°	4552.8	4588.3	4609.2	4575.8	4536.0
27.5°	4337.3	4391.6	4454.4	4429.3	4385.4
30°	4096.6	4176.1	4280.8	4259.8	4228.5
32.5°	3868.6	3948.1	4092.5	4084.1	4067.3
35°	3661.5	3711.7	3881.1	3902.1	3887.4
37.5°	3464.8	3510.8	3669.8	3717.9	3705.4
40°	3257.6	3307.9	3433.4	3519.2	3523.4
42.5°	3052.6	3100.7	3203.2	3326.7	3326.7
45°	2835.0	2883.1	2977.3	3113.3	3130.0
47.5°	2621.6	2671.8	2763.9	2899.9	2927.1
50°	2412.4	2458.4	2550.5	2682.3	2724.1
52.5°	2194.8	2245.0	2335.0	2456.3	2517.0
55°	1985.6	2019.0	2117.4	2234.5	2299.4
57.5°	1768.0	1799.3	1910.2	2010.7	2077.6
60°	1558.7	1598.5	1684.3	1786.8	1864.2
62.5°	1357.9	1399.7	1472.9	1562.9	1650.8
65°	1163.3	1194.7	1265.8	1355.8	1433.2
67.5°	975.0	1002.2	1073.3	1136.1	1217.7
70°	784.6	820.2	872.5	933.1	985.5
72.5°	631.9	646.5	690.4	734.4	788.8
75°	466.6	491.7	527.2	552.4	583.7
77.5°	334.8	349.4	370.3	391.3	420.5
80°	223.9	230.1	249.0	253.2	276.2
82.5°	136.0	140.2	144.4	146.5	154.8
85°	73.2	73.2	73.2	69.0	69.0
87.5°	41.8	41.8	35.6	29.3	20.9
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)