

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: P489441

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2HI-50-120-EDD**

Issue Date: 3/11/2021

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: P489441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: CLM-24-4-INS-A12125-LD4-2HI-50-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

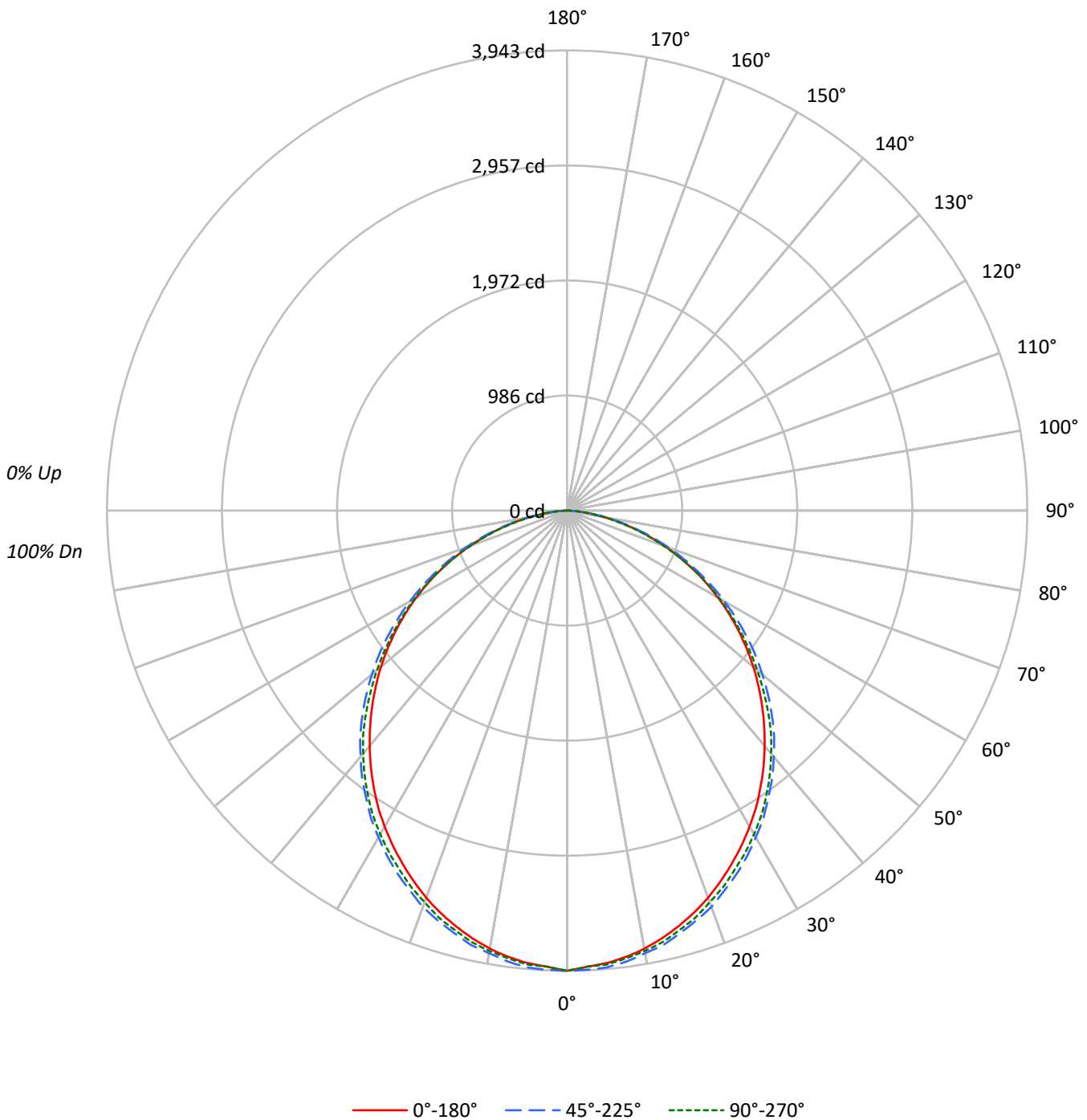
Lumens per Lamp: N/A
Luminaire Lumens: 10367.1 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
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

TEST NUMBER: P489441

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-2HI-50-120-EDD

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	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	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5306	5306	5306
5°	5257	5306	5273
10°	5208	5261	5236
15°	5136	5219	5183
20°	5056	5176	5113
25°	4957	5101	5042
30°	4857	5022	4976
35°	4747	4936	4890
40°	4624	4837	4776
45°	4494	4721	4632
50°	4359	4570	4450
55°	4201	4398	4263
60°	4022	4189	4060
65°	3791	3936	3793
70°	3488	3628	3449
75°	3071	3210	3025
80°	2496	2604	2467
85°	1738	1853	1808



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.4	3.6
10°-20°	1052.4	10.2
20°-30°	1569.6	15.1
30°-40°	1860.0	17.9
40°-50°	1882.0	18.2
50°-60°	1643.7	15.9
60°-70°	1201.1	11.6
70°-80°	639.1	6.2
80°-90°	147.7	1.4
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
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0°-30°	2993.4	28.9
0°-40°	4853.4	46.8
0°-60°	8379.2	80.8
0°-90°	10367.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10367.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3943	3943	3943	3943	3943	
5°	3892	3899	3928	3938	3904	369
15°	3687	3712	3747	3770	3721	1040
25°	3339	3380	3436	3449	3396	1538
35°	2890	2936	3005	3026	2977	1808
45°	2362	2404	2481	2483	2434	1822
55°	1791	1827	1875	1848	1817	1601
65°	1191	1215	1236	1212	1191	1178
75°	591	604	618	595	582	628
85°	113	115	120	121	117	143
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3943.3	3943.3	3943.3	3943.3	3943.3
2.5°	3912.5	3925.2	3938.3	3944.1	3912.1
5°	3891.9	3899.3	3928.5	3937.5	3904.2
7.5°	3858.2	3869.3	3897.7	3901.8	3869.7
10°	3812.2	3831.9	3850.8	3871.4	3832.3
12.5°	3753.5	3780.2	3812.2	3815.9	3786.3
15°	3687.3	3712.0	3746.9	3769.5	3720.6
17.5°	3613.4	3637.2	3682.4	3686.5	3656.9
20°	3530.8	3560.4	3614.6	3624.1	3571.1
22.5°	3437.1	3477.0	3522.2	3531.2	3492.2
25°	3338.9	3380.0	3435.9	3448.6	3396.4
27.5°	3236.2	3275.7	3338.5	3347.6	3303.6
30°	3126.1	3163.1	3232.1	3247.3	3202.5
32.5°	3014.4	3051.3	3127.8	3140.5	3096.9
35°	2890.3	2935.5	3004.9	3025.9	2977.0
37.5°	2763.7	2807.7	2886.6	2905.5	2852.9
40°	2632.7	2676.2	2753.9	2769.5	2719.0
42.5°	2498.8	2542.3	2625.3	2627.8	2585.8
45°	2361.9	2403.8	2481.1	2483.1	2434.2
47.5°	2223.1	2265.4	2334.4	2326.6	2280.6
50°	2082.6	2122.8	2183.2	2167.6	2126.1
52.5°	1937.1	1976.2	2033.3	2007.8	1968.8
55°	1790.9	1827.0	1874.7	1847.6	1817.2
57.5°	1643.4	1679.9	1716.5	1689.0	1662.7
60°	1494.6	1526.7	1556.7	1528.7	1508.6
62.5°	1343.5	1371.0	1396.9	1370.2	1351.3
65°	1190.6	1214.9	1236.2	1211.6	1191.4
67.5°	1038.6	1059.2	1078.9	1053.4	1032.4
70°	886.6	904.3	922.3	896.0	876.7
72.5°	736.6	752.3	768.3	742.8	726.0
75°	590.8	604.4	617.5	594.9	581.8
77.5°	451.5	463.0	472.1	457.7	444.9
80°	322.1	330.7	336.1	330.3	318.4
82.5°	207.1	213.2	216.1	215.7	207.9
85°	112.6	114.6	120.0	121.2	117.1
87.5°	43.5	46.4	47.7	51.4	47.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)