

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: P488973

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4HI-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: P488973
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-24-2-INS-A12125-LD4-4HI-50-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

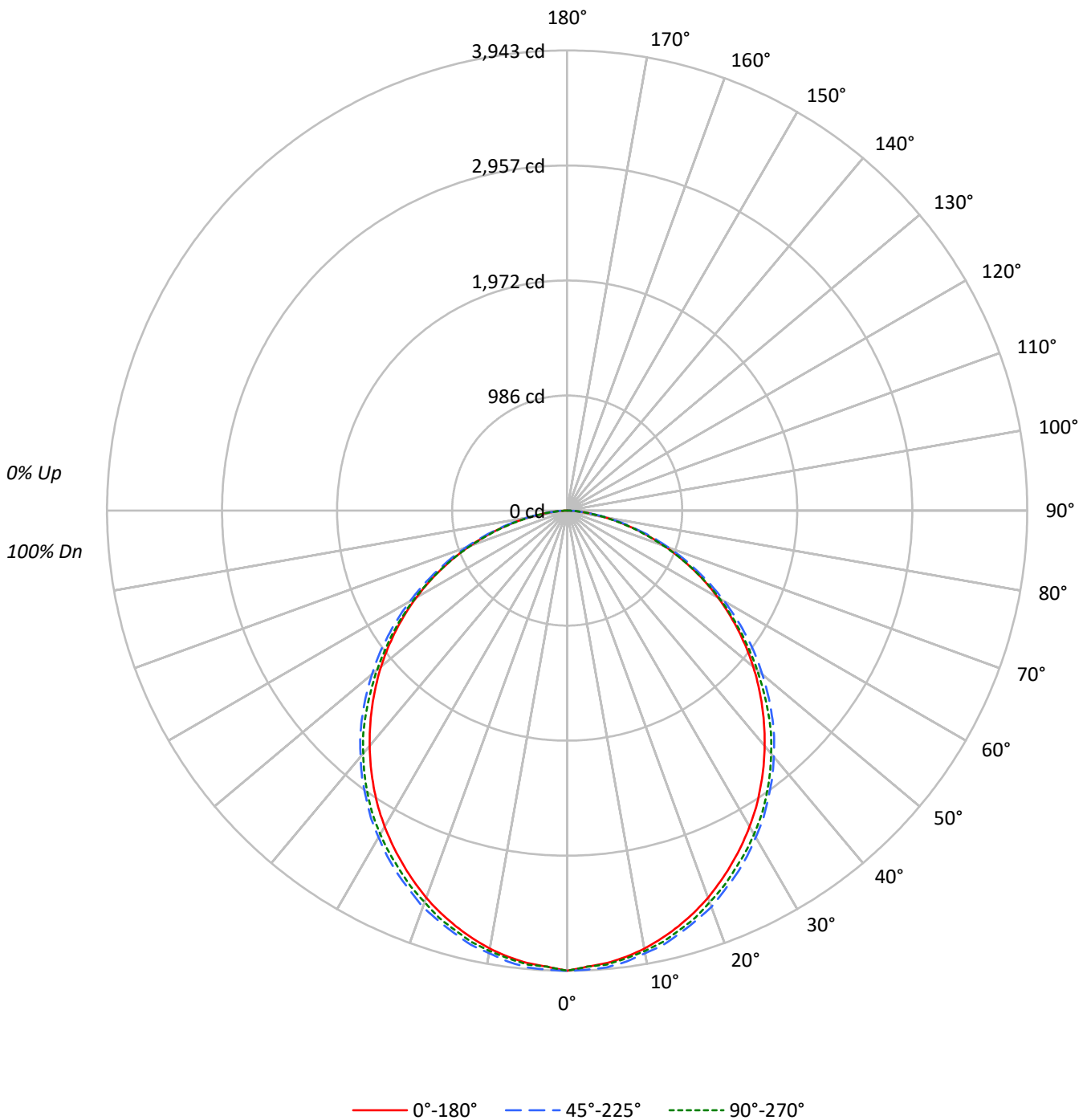
Lumens per Lamp: N/A
Luminaire Lumens: 10366.7 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	10611	10611	10611
5°	10513	10611	10546
10°	10417	10522	10471
15°	10272	10438	10365
20°	10111	10351	10226
25°	9913	10201	10084
30°	9713	10043	9951
35°	9495	9871	9779
40°	9248	9674	9551
45°	8988	9442	9264
50°	8718	9139	8900
55°	8402	8795	8525
60°	8044	8378	8119
65°	7581	7871	7586
70°	6976	7257	6898
75°	6143	6420	6048
80°	4991	5208	4934
85°	3477	3705	3616



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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°	1859.9	17.9
40°-50°	1882.0	18.2
50°-60°	1643.6	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
0°-30°	2993.3	28.9
0°-40°	4853.2	46.8
0°-60°	8378.8	80.8
0°-90°	10366.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10366.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3943	3943	3943	3943	3943	
5°	3892	3899	3928	3937	3904	369
15°	3687	3712	3747	3769	3720	1039
25°	3339	3380	3436	3448	3396	1538
35°	2890	2935	3005	3026	2977	1807
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°	3943.1	3943.1	3943.1	<i>3943.1</i>	3943.1
2.5°	<i>3912.3</i>	<i>3925.0</i>	<i>3938.2</i>	<i>3943.9</i>	<i>3911.9</i>
5°	3891.8	3899.2	3928.3	<i>3937.4</i>	3904.1
7.5°	3858.1	3869.2	3897.5	<i>3901.6</i>	3869.6
10°	3812.1	3831.8	3850.7	<i>3871.2</i>	3832.2
12.5°	3753.3	3780.0	3812.1	<i>3815.8</i>	3786.2
15°	3687.2	3711.8	3746.7	<i>3769.3</i>	3720.5
17.5°	3613.2	3637.1	3682.2	<i>3686.4</i>	3656.8
20°	3530.7	3560.2	3614.5	<i>3623.9</i>	3570.9
22.5°	3437.0	3476.8	3522.0	<i>3531.1</i>	3492.0
25°	3338.8	3379.9	3435.8	<i>3448.5</i>	3396.3
27.5°	3236.1	3275.5	3338.4	<i>3347.4</i>	3303.5
30°	3126.0	3163.0	3232.0	<i>3247.2</i>	3202.4
32.5°	3014.2	3051.2	3127.6	<i>3140.4</i>	3096.8
35°	2890.2	2935.4	3004.8	<i>3025.7</i>	2976.9
37.5°	2763.6	2807.6	2886.5	<i>2905.4</i>	2852.8
40°	2632.6	2676.1	2753.8	<i>2769.4</i>	2718.9
42.5°	2498.7	2542.2	2625.2	<i>2627.7</i>	2585.7
45°	2361.8	2403.8	2481.0	<i>2483.0</i>	2434.2
47.5°	2223.0	2265.3	2334.3	<i>2326.5</i>	2280.5
50°	2082.5	2122.7	2183.1	<i>2167.5</i>	2126.0
52.5°	1937.1	1976.1	2033.2	<i>2007.7</i>	1968.7
55°	1790.8	1827.0	1874.6	<i>1847.5</i>	1817.1
57.5°	1643.3	1679.9	1716.4	<i>1688.9</i>	1662.6
60°	1494.6	1526.6	1556.6	<i>1528.7</i>	1508.6
62.5°	1343.4	1370.9	1396.8	<i>1370.1</i>	1351.2
65°	1190.6	1214.8	1236.2	<i>1211.5</i>	1191.4
67.5°	1038.6	1059.1	1078.8	<i>1053.4</i>	1032.4
70°	886.6	904.2	922.3	<i>896.0</i>	876.7
72.5°	736.6	752.2	768.2	<i>742.8</i>	725.9
75°	590.8	604.3	617.5	<i>594.9</i>	581.7
77.5°	451.5	463.0	472.0	<i>457.7</i>	444.9
80°	322.1	330.7	336.1	<i>330.3</i>	318.4
82.5°	207.1	213.2	216.1	<i>215.7</i>	207.9
85°	112.6	114.6	120.0	<i>121.2</i>	117.1
87.5°	43.5	46.4	47.7	<i>51.4</i>	47.2
90°	0.0	0.0	0.0	<i>0.0</i>	0.0

(END OF REPORT)