

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: P489573

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5STD-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: P489573
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-LD4-5STD-50-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

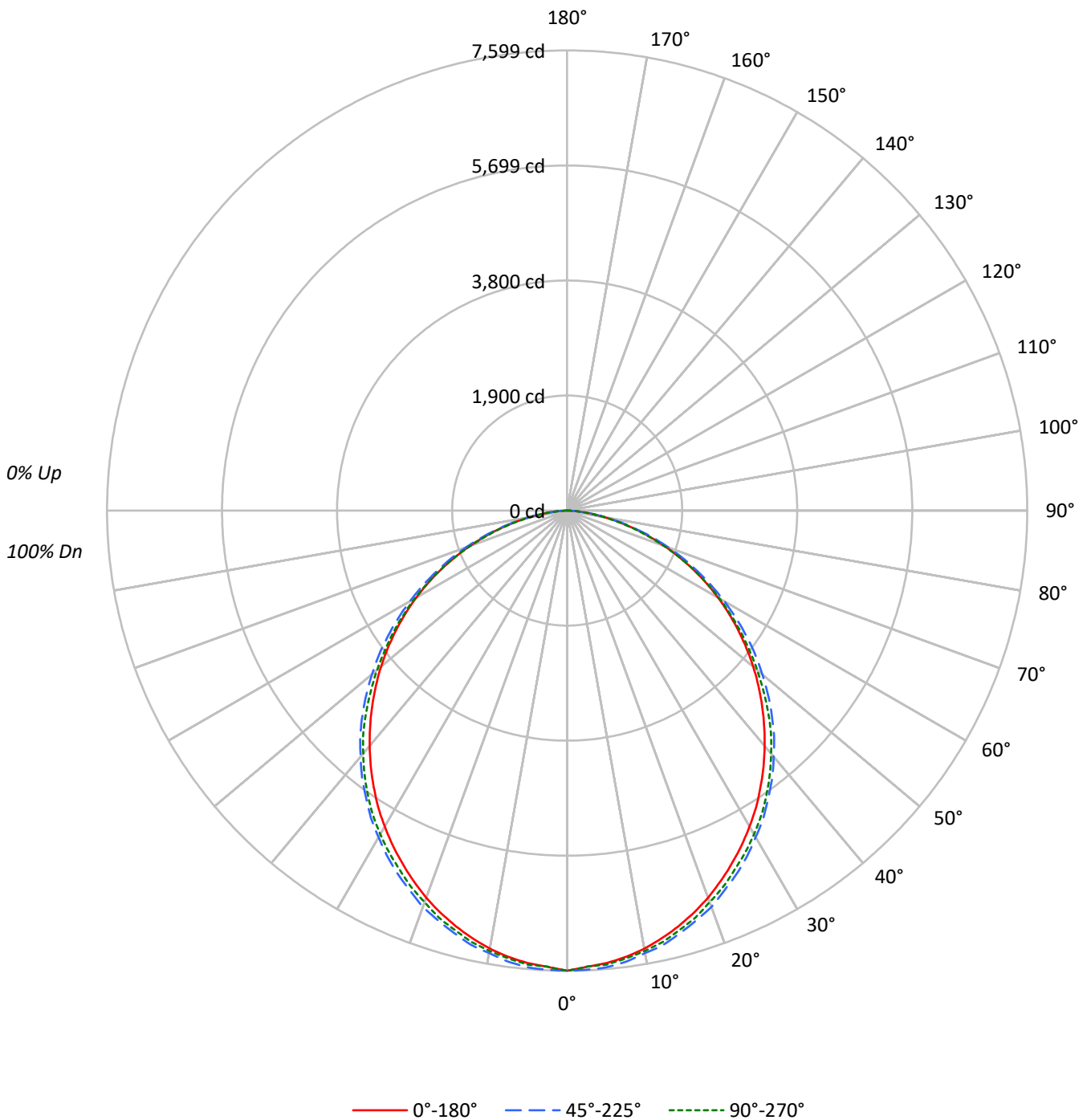
Lumens per Lamp: N/A
Luminaire Lumens: 19978.2 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 166.5
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°	10224	10224	10224
5°	10130	10225	10162
10°	10037	10139	10090
15°	9898	10058	9987
20°	9742	9974	9853
25°	9552	9830	9717
30°	9360	9677	9588
35°	9149	9511	9423
40°	8911	9321	9203
45°	8661	9098	8926
50°	8401	8807	8576
55°	8096	8475	8214
60°	7751	8073	7823
65°	7305	7585	7310
70°	6721	6992	6646
75°	5919	6186	5828
80°	4809	5018	4754
85°	3348	3569	3483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	715.7	3.6
10°-20°	2028.1	10.2
20°-30°	3024.8	15.1
30°-40°	3584.4	17.9
40°-50°	3626.8	18.2
50°-60°	3167.5	15.9
60°-70°	2314.7	11.6
70°-80°	1231.6	6.2
80°-90°	284.7	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°	5768.5	28.9
0°-40°	9352.9	46.8
0°-60°	16147.3	80.8
0°-90°	19978.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19978.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7599	7599	7599	7599	7599	
5°	7500	7514	7570	7588	7524	711
15°	7106	7153	7221	7264	7170	2003
25°	6434	6514	6621	6646	6545	2964
35°	5570	5657	5791	5831	5737	3483
45°	4552	4632	4781	4785	4691	3511
55°	3451	3521	3613	3560	3502	3085
65°	2294	2341	2382	2335	2296	2270
75°	1138	1165	1190	1146	1121	1210
85°	217	221	231	234	226	275
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7599.0	7599.0	7599.0	7599.0	7599.0
2.5°	7539.6	7564.2	7589.5	7600.6	7538.8
5°	7500.0	7514.3	7570.5	7587.9	7523.8
7.5°	7435.1	7456.5	7511.1	7519.0	7457.3
10°	7346.4	7384.4	7420.9	7460.4	7385.2
12.5°	7233.2	7284.7	7346.4	7353.6	7296.6
15°	7105.8	7153.3	7220.6	7264.1	7169.9
17.5°	6963.2	7009.2	7096.2	7104.2	7047.2
20°	6804.1	6861.1	6965.6	6983.8	6881.7
22.5°	6623.6	6700.4	6787.5	6804.9	6729.7
25°	6434.4	6513.5	6621.2	6645.8	6545.2
27.5°	6236.4	6312.4	6433.6	6451.0	6366.3
30°	6024.3	6095.5	6228.5	6257.8	6171.5
32.5°	5808.9	5880.2	6027.4	6052.0	5968.0
35°	5569.8	5656.9	5790.7	5831.1	5736.9
37.5°	5325.9	5410.7	5562.7	5599.1	5497.8
40°	5073.4	5157.3	5306.9	5337.0	5239.6
42.5°	4815.3	4899.2	5059.1	5063.9	4983.1
45°	4551.6	4632.4	4781.2	4785.2	4691.0
47.5°	4284.0	4365.6	4498.6	4483.6	4394.9
50°	4013.3	4090.9	4207.2	4177.2	4097.2
52.5°	3733.0	3808.2	3918.3	3869.2	3794.0
55°	3451.1	3520.8	3612.7	3560.4	3501.8
57.5°	3166.9	3237.4	3307.8	3254.8	3204.1
60°	2880.3	2942.1	2999.9	2946.0	2907.2
62.5°	2588.9	2642.0	2691.9	2640.4	2604.0
65°	2294.4	2341.1	2382.3	2334.8	2296.0
67.5°	2001.5	2041.1	2079.1	2030.0	1989.6
70°	1708.5	1742.6	1777.4	1726.8	1689.5
72.5°	1419.6	1449.7	1480.5	1431.4	1399.0
75°	1138.5	1164.6	1190.0	1146.4	1121.1
77.5°	870.1	892.3	909.7	882.0	857.4
80°	620.7	637.3	647.6	636.5	613.6
82.5°	399.0	410.9	416.4	415.7	400.6
85°	216.9	220.9	231.2	233.6	225.6
87.5°	83.9	89.5	91.8	99.0	91.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)