

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: P489572

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5STD-50-120-EDD-90**

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: P489572
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-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

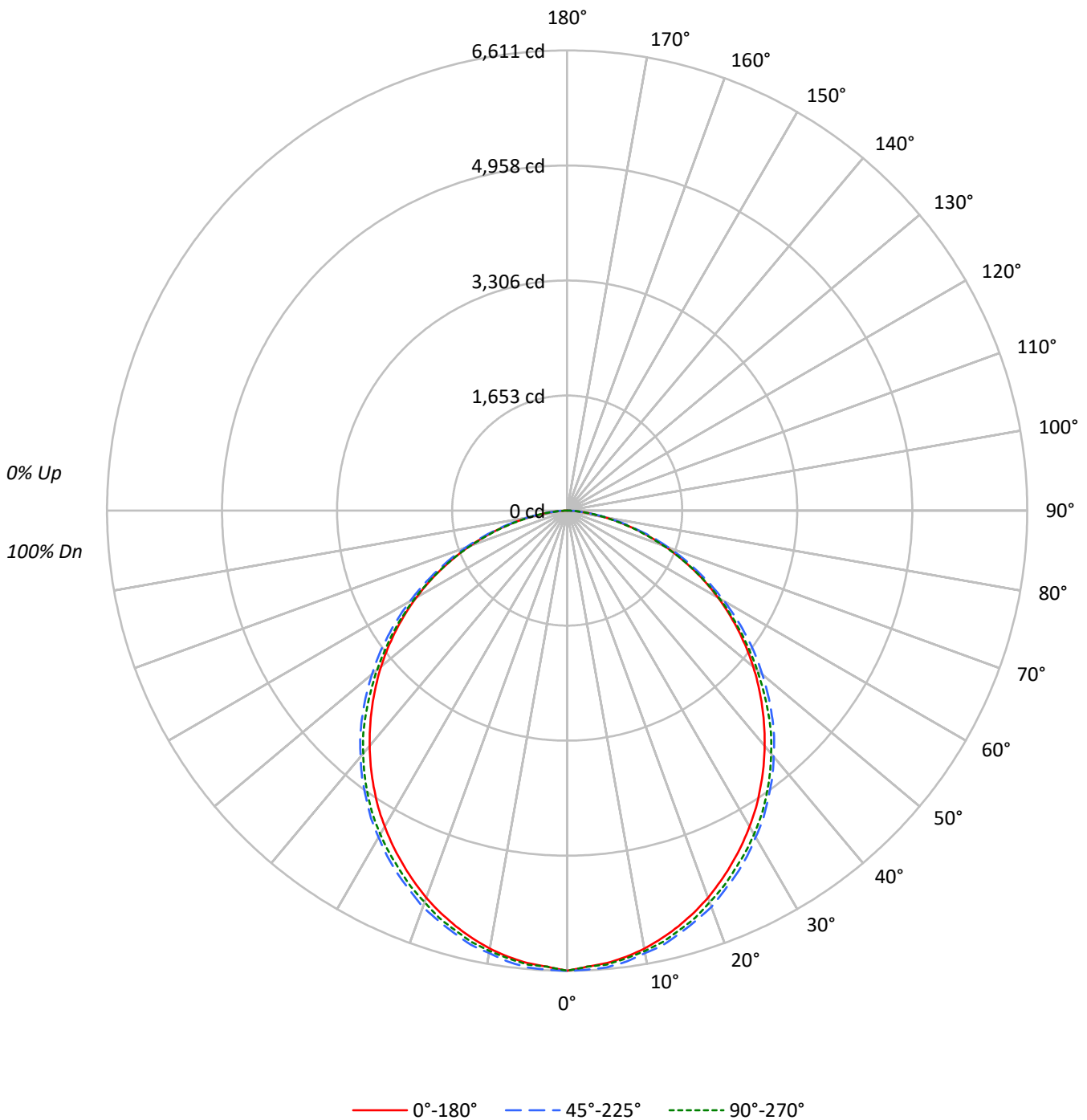
Lumens per Lamp: N/A
Luminaire Lumens: 17381.1 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	8895	8895	8895
5°	8813	8896	8841
10°	8732	8821	8778
15°	8611	8750	8689
20°	8476	8677	8573
25°	8311	8552	8454
30°	8143	8419	8342
35°	7959	8275	8198
40°	7753	8110	8007
45°	7535	7915	7766
50°	7309	7662	7461
55°	7043	7373	7147
60°	6743	7023	6806
65°	6355	6599	6359
70°	5847	6083	5783
75°	5149	5382	5070
80°	4184	4365	4136
85°	2913	3105	3030



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	622.6	3.6
10°-20°	1764.4	10.2
20°-30°	2631.6	15.1
30°-40°	3118.4	17.9
40°-50°	3155.4	18.2
50°-60°	2755.8	15.9
60°-70°	2013.8	11.6
70°-80°	1071.5	6.2
80°-90°	247.6	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°	5018.6	28.9
0°-40°	8137.0	46.8
0°-60°	14048.2	80.8
0°-90°	17381.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17381.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6611	6611	6611	6611	6611	
5°	6525	6537	6586	6602	6546	619
15°	6182	6223	6282	6320	6238	1743
25°	5598	5667	5760	5782	5694	2579
35°	4846	4922	5038	5073	4991	3030
45°	3960	4030	4160	4163	4081	3055
55°	3002	3063	3143	3098	3047	2684
65°	1996	2037	2073	2031	1998	1975
75°	990	1013	1035	997	975	1053
85°	189	192	201	203	196	239
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6611.2	6611.2	6611.2	6611.2	6611.2
2.5°	6559.5	6580.8	6602.9	6612.5	6558.8
5°	6525.1	6537.4	6586.4	6601.5	6545.7
7.5°	6468.6	6487.2	6534.7	6541.6	6487.9
10°	6391.4	6424.5	6456.2	6490.6	6425.2
12.5°	6292.9	6337.7	6391.4	6397.6	6348.0
15°	6182.0	6223.4	6281.9	6319.8	6237.8
17.5°	6058.0	6098.0	6173.8	6180.6	6131.1
20°	5919.6	5969.2	6060.1	6076.0	5987.1
22.5°	5762.5	5829.4	5905.1	5920.3	5854.8
25°	5597.9	5666.8	5760.5	5781.8	5694.4
27.5°	5425.7	5491.8	5597.2	5612.4	5538.7
30°	5241.1	5303.1	5418.8	5444.3	5369.2
32.5°	5053.8	5115.8	5243.9	5265.2	5192.2
35°	4845.7	4921.5	5037.9	5073.0	4991.1
37.5°	4633.6	4707.3	4839.5	4871.2	4783.1
40°	4413.9	4486.9	4617.1	4643.2	4558.5
42.5°	4189.3	4262.3	4401.5	4405.6	4335.3
45°	3959.9	4030.2	4159.7	4163.1	4081.2
47.5°	3727.1	3798.1	3913.8	3900.7	3823.6
50°	3491.6	3559.1	3660.3	3634.1	3564.6
52.5°	3247.7	3313.2	3408.9	3366.2	3300.8
55°	3002.5	3063.1	3143.0	3097.6	3046.6
57.5°	2755.2	2816.5	2877.8	2831.7	2787.6
60°	2505.9	2559.6	2609.9	2563.0	2529.3
62.5°	2252.4	2298.5	2341.9	2297.2	2265.5
65°	1996.2	2036.8	2072.6	2031.3	1997.5
67.5°	1741.3	1775.7	1808.8	1766.1	1731.0
70°	1486.4	1516.1	1546.4	1502.3	1469.9
72.5°	1235.0	1261.2	1288.1	1245.4	1217.1
75°	990.5	1013.2	1035.3	997.4	975.3
77.5°	757.0	776.3	791.4	767.3	746.0
80°	540.0	554.5	563.4	553.8	533.8
82.5°	347.2	357.5	362.3	361.6	348.5
85°	188.7	192.2	201.1	203.2	196.3
87.5°	73.0	77.8	79.9	86.1	79.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)