

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: P489564

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5STD-27-120-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: P489564
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-27-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

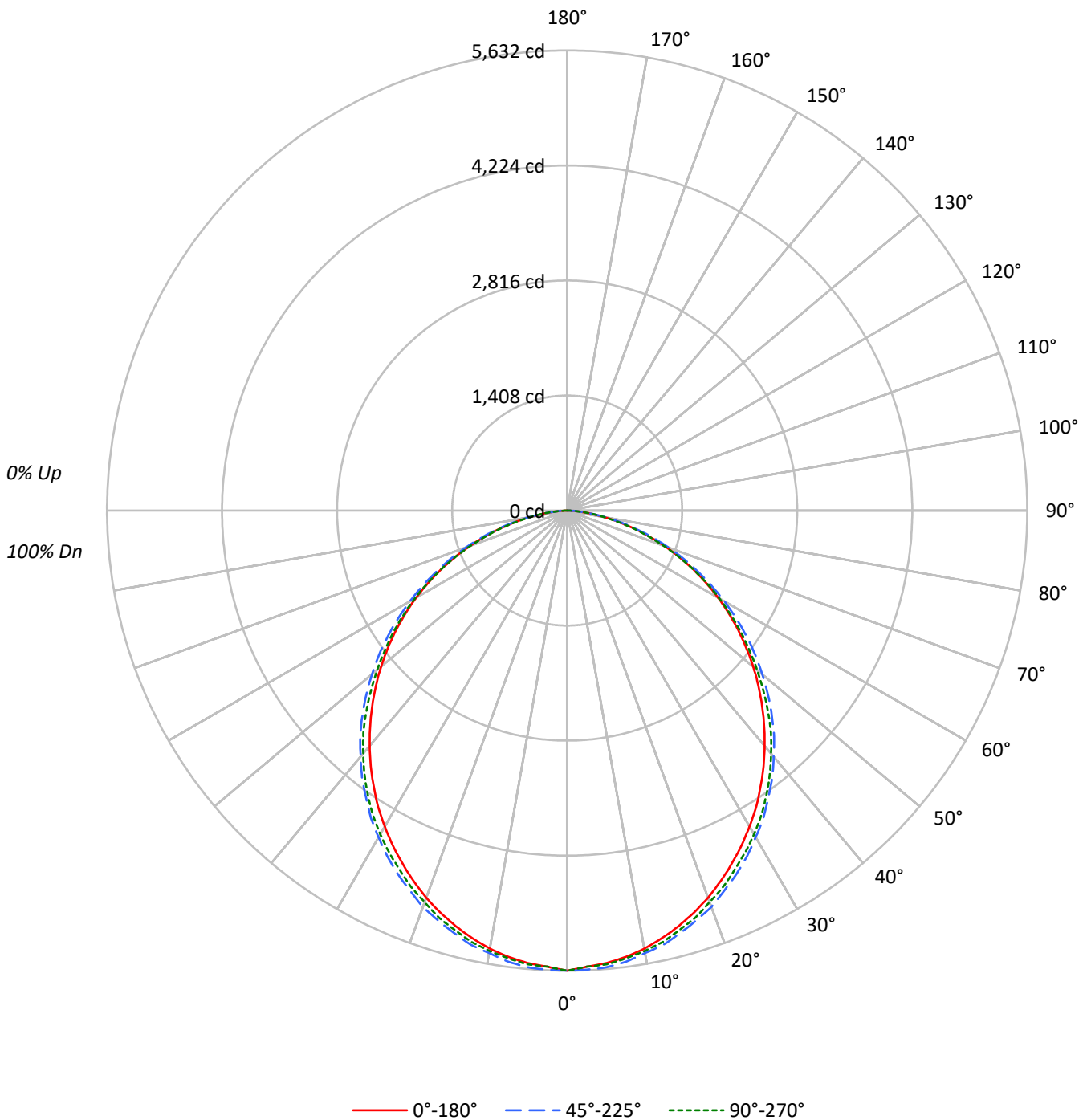
Lumens per Lamp: N/A
Luminaire Lumens: 14806.1 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	7577	7577	7577
5°	7507	7578	7531
10°	7439	7514	7478
15°	7336	7454	7402
20°	7220	7392	7303
25°	7079	7285	7201
30°	6936	7172	7106
35°	6780	7049	6984
40°	6604	6908	6820
45°	6419	6742	6615
50°	6226	6527	6356
55°	6000	6281	6088
60°	5744	5983	5798
65°	5414	5621	5417
70°	4981	5182	4926
75°	4387	4585	4319
80°	3564	3719	3523
85°	2482	2644	2581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.4	3.6
10°-20°	1503.0	10.2
20°-30°	2241.7	15.1
30°-40°	2656.4	17.9
40°-50°	2687.9	18.2
50°-60°	2347.5	15.9
60°-70°	1715.4	11.6
70°-80°	912.8	6.2
80°-90°	211.0	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°	4275.1	28.9
0°-40°	6931.6	46.8
0°-60°	11967.0	80.8
0°-90°	14806.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14806.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5632	5632	5632	5632	5632	
5°	5558	5569	5611	5624	5576	527
15°	5266	5301	5351	5384	5314	1485
25°	4769	4827	4907	4925	4851	2197
35°	4128	4192	4292	4322	4252	2581
45°	3373	3433	3543	3546	3476	2602
55°	2558	2609	2677	2639	2595	2286
65°	1700	1735	1766	1730	1702	1683
75°	844	863	882	850	831	897
85°	161	164	171	173	167	204
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5631.7	5631.7	5631.7	5631.7	5631.7
2.5°	5587.7	5605.9	5624.7	5632.9	5587.1
5°	5558.4	5568.9	5610.6	5623.5	5576.0
7.5°	5510.3	5526.1	5566.6	5572.5	5526.7
10°	5444.5	5472.7	5499.7	5529.0	5473.3
12.5°	5360.6	5398.8	5444.5	5449.8	5407.6
15°	5266.2	5301.4	5351.2	5383.5	5313.7
17.5°	5160.5	5194.6	5259.1	5265.0	5222.7
20°	5042.6	5084.9	5162.3	5175.8	5100.1
22.5°	4908.8	4965.7	5030.3	5043.2	4987.5
25°	4768.6	4827.3	4907.1	4925.3	4850.7
27.5°	4621.9	4678.2	4768.0	4780.9	4718.1
30°	4464.6	4517.5	4616.0	4637.7	4573.8
32.5°	4305.1	4357.9	4467.0	4485.2	4423.0
35°	4127.9	4192.4	4291.6	4321.5	4251.7
37.5°	3947.1	4009.9	4122.6	4149.6	4074.5
40°	3760.0	3822.1	3933.0	3955.3	3883.2
42.5°	3568.7	3630.9	3749.4	3752.9	3693.1
45°	3373.3	3433.1	3543.4	3546.4	3476.5
47.5°	3175.0	3235.4	3334.0	3322.8	3257.1
50°	2974.3	3031.8	3118.0	3095.7	3036.5
52.5°	2766.6	2822.3	2903.9	2867.5	2811.7
55°	2557.7	2609.3	2677.4	2638.7	2595.2
57.5°	2347.0	2399.3	2451.5	2412.2	2374.6
60°	2134.6	2180.4	2223.2	2183.3	2154.6
62.5°	1918.7	1958.0	1995.0	1956.8	1929.9
65°	1700.4	1735.0	1765.6	1730.4	1701.6
67.5°	1483.3	1512.7	1540.8	1504.5	1474.5
70°	1266.2	1291.5	1317.3	1279.7	1252.1
72.5°	1052.1	1074.4	1097.2	1060.9	1036.8
75°	843.8	863.1	881.9	849.6	830.9
77.5°	644.8	661.3	674.2	653.6	635.5
80°	460.0	472.3	480.0	471.8	454.7
82.5°	295.7	304.5	308.6	308.0	296.9
85°	160.8	163.7	171.3	173.1	167.2
87.5°	62.2	66.3	68.1	73.3	67.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)