

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: P489513

Luminaire Tested: **CLM-24-4-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: P489513
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-LD4-4HI-50-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

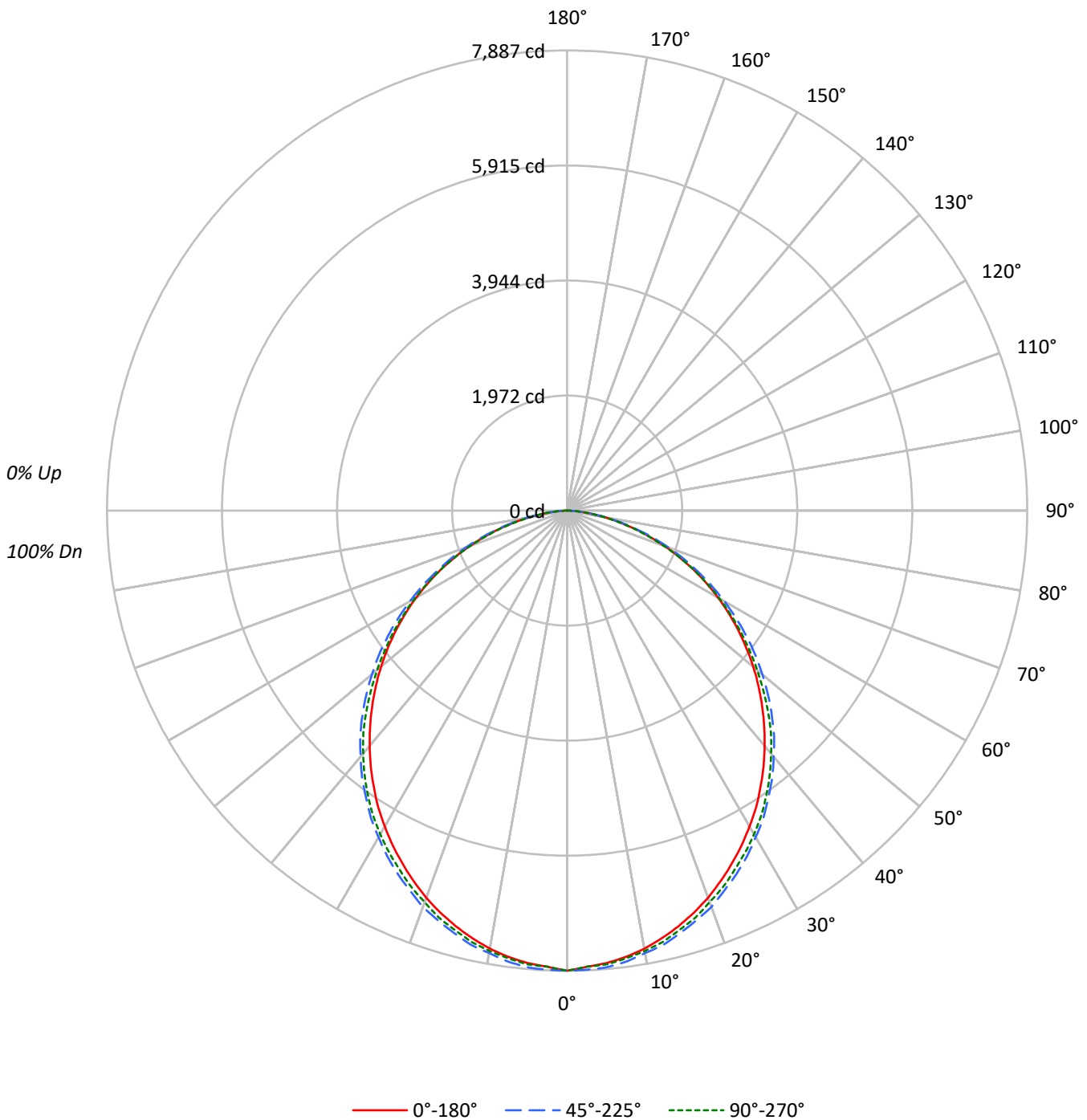
Lumens per Lamp: N/A
Luminaire Lumens: 20734.2 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 172.8
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	10612	10546
10°	10417	10522	10472
15°	10272	10439	10365
20°	10111	10351	10226
25°	9914	10202	10085
30°	9714	10043	9951
35°	9495	9871	9780
40°	9248	9674	9551
45°	8989	9442	9264
50°	8718	9140	8901
55°	8402	8795	8525
60°	8044	8378	8119
65°	7581	7872	7586
70°	6976	7257	6898
75°	6143	6420	6049
80°	4991	5208	4934
85°	3475	3704	3616



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	742.8	3.6
10°-20°	2104.8	10.2
20°-30°	3139.2	15.1
30°-40°	3720.0	17.9
40°-50°	3764.1	18.2
50°-60°	3287.4	15.9
60°-70°	2402.3	11.6
70°-80°	1278.2	6.2
80°-90°	295.4	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°	5986.8	28.9
0°-40°	9706.8	46.8
0°-60°	16758.3	80.8
0°-90°	20734.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20734.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7887	7887	7887	7887	7887	
5°	7784	7799	7857	7875	7808	738
15°	7375	7424	7494	7539	7441	2079
25°	6678	6760	6872	6897	6793	3077
35°	5781	5871	6010	6052	5954	3615
45°	4724	4808	4962	4966	4868	3644
55°	3582	3654	3749	3695	3634	3202
65°	2381	2430	2472	2423	2383	2356
75°	1182	1209	1235	1190	1164	1256
85°	225	229	240	242	234	285
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7886.6	7886.6	7886.6	7886.6	7886.6
2.5°	7824.9	7850.4	7876.7	7888.2	7824.1
5°	7783.8	7798.6	7857.0	7875.0	7808.5
7.5°	7716.5	7738.6	7795.3	7803.6	7739.5
10°	7624.4	7663.9	7701.7	7742.8	7664.7
12.5°	7506.9	7560.3	7624.4	7631.8	7572.7
15°	7374.6	7423.9	7493.8	7539.0	7441.2
17.5°	7226.7	7274.4	7364.8	7373.0	7313.8
20°	7061.6	7120.7	7229.2	7248.1	7142.1
22.5°	6874.2	6953.9	7044.3	7062.4	6984.3
25°	6677.9	6760.0	6871.8	6897.2	6792.9
27.5°	6472.4	6551.3	6677.0	6695.1	6607.2
30°	6252.2	6326.2	6464.2	6494.6	6405.1
32.5°	6028.7	6102.7	6255.5	6281.0	6193.9
35°	5780.6	5871.0	6009.8	6051.7	5953.9
37.5°	5527.5	5615.4	5773.2	5811.0	5705.8
40°	5265.4	5352.5	5507.8	5539.0	5437.9
42.5°	4997.5	5084.6	5250.6	5255.5	5171.7
45°	4723.9	4807.7	4962.2	4966.3	4868.5
47.5°	4446.1	4530.8	4668.8	4653.2	4561.2
50°	4165.1	4245.7	4366.4	4335.2	4252.2
52.5°	3874.3	3952.3	4066.5	4015.6	3937.5
55°	3581.7	3654.0	3749.4	3695.1	3634.3
57.5°	3286.7	3359.9	3433.0	3378.0	3325.4
60°	2989.3	3053.4	3113.4	3057.5	3017.2
62.5°	2686.9	2742.0	2793.7	2740.3	2702.5
65°	2381.2	2429.7	2472.5	2423.2	2382.9
67.5°	2077.2	2118.3	2157.8	2106.8	2064.9
70°	1773.2	1808.5	1844.7	1792.1	1753.5
72.5°	1473.3	1504.5	1536.6	1485.6	1451.9
75°	1181.6	1208.7	1235.0	1189.8	1163.5
77.5°	903.0	926.0	944.1	915.4	889.9
80°	644.2	661.5	672.1	660.6	636.8
82.5°	414.1	426.5	432.2	431.4	415.8
85°	225.1	229.3	239.9	242.4	234.2
87.5°	87.1	92.9	95.3	102.7	94.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)