

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: P489866

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4HI-30-120-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: P489866
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)
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-P12125-LD4-4HI-30-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

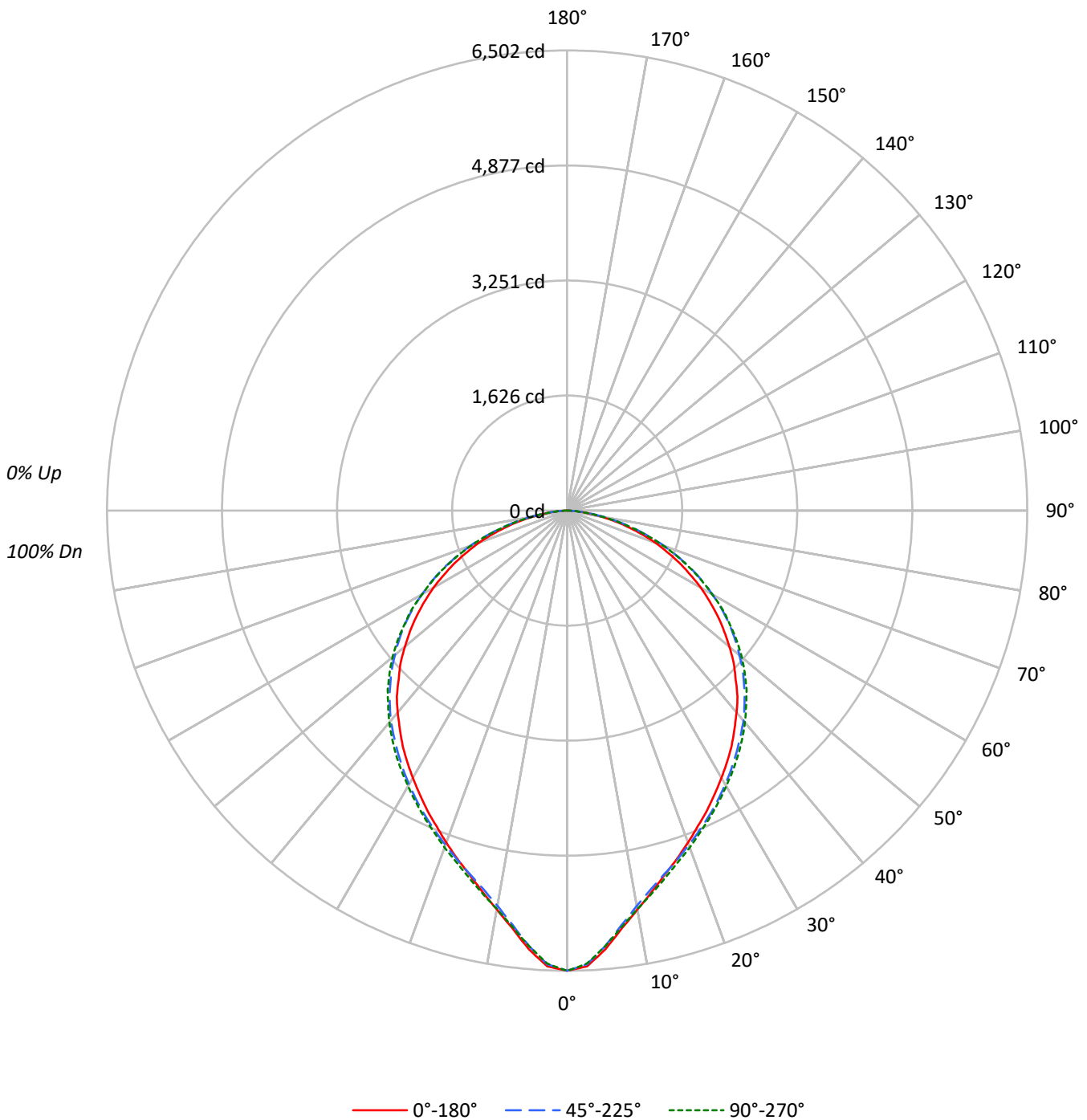
Lumens per Lamp: N/A
Luminaire Lumens: 15102.3 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8748	8748	8748
5°	8400	8340	8340
10°	7818	7746	7806
15°	7418	7405	7477
20°	7146	7197	7253
25°	6941	7055	7096
30°	6774	6941	6984
35°	6658	6853	6922
40°	6540	6806	6863
45°	6405	6739	6819
50°	6264	6655	6744
55°	6090	6559	6586
60°	5871	6378	6366
65°	5565	6134	6093
70°	5196	5720	5650
75°	4586	5068	5017
80°	3726	4129	3927
85°	2584	2634	2533



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.5	3.8
10°-20°	1504.9	10.0
20°-30°	2188.3	14.5
30°-40°	2604.1	17.2
40°-50°	2703.9	17.9
50°-60°	2449.6	16.2
60°-70°	1848.5	12.2
70°-80°	1007.2	6.7
80°-90°	221.3	1.5
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°	4267.7	28.3
0°-40°	6871.8	45.5
0°-60°	12025.4	79.6
0°-90°	15102.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15102.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6502	6502	6502	6502	6502	
5°	6219	6204	6175	6172	6175	577
15°	5326	5312	5316	5352	5368	1503
25°	4676	4715	4752	4791	4780	2155
35°	4053	4102	4172	4236	4214	2534
45°	3366	3426	3542	3581	3584	2602
55°	2596	2658	2796	2816	2807	2318
65°	1748	1798	1927	1924	1914	1728
75°	882	918	975	981	965	940
85°	167	169	171	169	164	211
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6501.8	6501.8	6501.8	6501.8	6501.8
2.5°	6444.9	6438.4	6417.3	6409.1	6407.5
5°	6219.1	6204.5	6175.2	6172.0	6175.2
7.5°	5949.4	5933.1	5904.0	5915.3	5929.9
10°	5721.9	5681.3	5669.9	5686.2	5713.8
12.5°	5518.8	5486.3	5476.5	5518.8	5538.4
15°	5325.5	5312.5	5315.8	5351.6	5367.7
17.5°	5158.2	5150.1	5171.2	5198.8	5207.0
20°	4990.9	5007.1	5026.6	5055.9	5065.6
22.5°	4826.8	4857.6	4890.2	4929.1	4916.1
25°	4675.7	4714.7	4752.1	4791.0	4779.7
27.5°	4514.8	4560.3	4612.3	4654.6	4638.3
30°	4360.4	4417.3	4467.7	4519.7	4495.4
32.5°	4207.8	4261.4	4321.5	4384.9	4357.3
35°	4053.4	4102.2	4172.1	4235.5	4214.3
37.5°	3882.9	3943.0	4022.5	4077.8	4063.3
40°	3723.7	3778.9	3874.7	3910.5	3907.2
42.5°	3562.8	3608.4	3709.0	3749.6	3743.1
45°	3366.3	3426.3	3541.7	3580.7	3583.9
47.5°	3192.4	3242.8	3366.3	3397.1	3403.6
50°	2992.6	3056.0	3179.4	3216.7	3221.7
52.5°	2795.9	2864.1	2990.9	3016.9	3021.9
55°	2596.1	2657.8	2795.9	2815.5	2807.4
57.5°	2386.6	2461.3	2588.1	2597.8	2605.9
60°	2181.8	2246.9	2370.3	2383.3	2365.5
62.5°	1959.3	2025.9	2152.7	2155.8	2141.2
65°	1748.0	1798.4	1926.7	1923.6	1913.8
67.5°	1527.1	1588.8	1683.1	1686.3	1678.3
70°	1320.8	1363.0	1454.0	1455.7	1436.2
72.5°	1098.3	1143.7	1216.8	1207.1	1202.3
75°	882.2	917.9	974.8	981.3	965.0
77.5°	684.0	710.0	752.2	747.4	729.4
80°	480.9	502.0	532.9	526.4	506.8
82.5°	307.0	320.1	339.6	331.4	323.3
85°	167.4	168.9	170.6	168.9	164.1
87.5°	61.7	63.4	63.4	61.7	56.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)