

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: P489914

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5LO-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: P489914
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-LD4-5LO-30-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

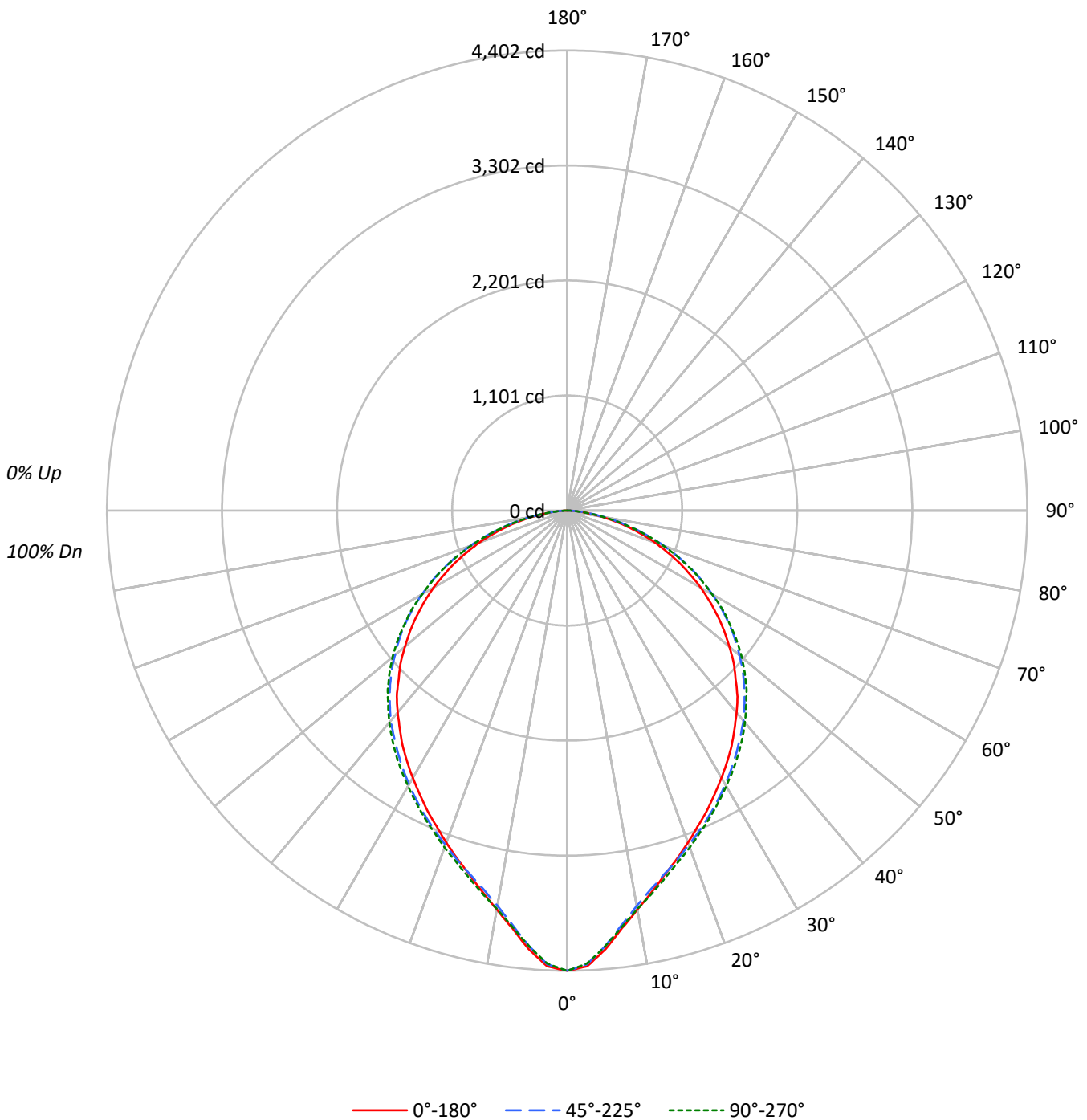
Lumens per Lamp: N/A
Luminaire Lumens: 10225.5 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
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°	5923	5923	5923
5°	5687	5647	5647
10°	5293	5245	5286
15°	5023	5014	5063
20°	4838	4873	4911
25°	4700	4777	4805
30°	4587	4700	4729
35°	4508	4640	4687
40°	4428	4608	4647
45°	4337	4563	4617
50°	4241	4506	4566
55°	4123	4441	4459
60°	3975	4319	4310
65°	3768	4153	4125
70°	3518	3873	3825
75°	3105	3431	3397
80°	2523	2796	2659
85°	1749	1783	1715



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.0	3.8
10°-20°	1018.9	10.0
20°-30°	1481.7	14.5
30°-40°	1763.2	17.2
40°-50°	1830.8	17.9
50°-60°	1658.6	16.2
60°-70°	1251.6	12.2
70°-80°	681.9	6.7
80°-90°	149.8	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°	2889.6	28.3
0°-40°	4652.8	45.5
0°-60°	8142.2	79.6
0°-90°	10225.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10225.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4402	4402	4402	4402	4402	
5°	4211	4201	4181	4179	4181	391
15°	3606	3597	3599	3623	3634	1018
25°	3166	3192	3218	3244	3236	1459
35°	2744	2778	2825	2868	2853	1716
45°	2279	2320	2398	2424	2427	1762
55°	1758	1800	1893	1906	1901	1569
65°	1184	1218	1305	1302	1296	1170
75°	597	622	660	664	653	636
85°	113	114	116	114	111	143
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4402.2	4402.2	4402.2	4402.2	4402.2
2.5°	4363.7	4359.3	4345.0	4339.5	4338.4
5°	4210.8	4200.9	4181.1	4179.0	4181.1
7.5°	4028.2	4017.2	3997.5	4005.1	4015.0
10°	3874.2	3846.7	3839.0	3850.0	3868.7
12.5°	3736.7	3714.7	3708.1	3736.7	3750.0
15°	3605.8	3597.0	3599.2	3623.4	3634.4
17.5°	3492.5	3487.0	3501.3	3520.0	3525.6
20°	3379.2	3390.3	3403.4	3423.3	3429.8
22.5°	3268.1	3289.0	3311.1	3337.4	3328.6
25°	3165.8	3192.2	3217.6	3243.9	3236.3
27.5°	3056.9	3087.7	3122.9	3151.5	3140.5
30°	2952.4	2990.9	3025.0	3060.2	3043.7
32.5°	2849.1	2885.3	2926.0	2968.9	2950.2
35°	2744.5	2777.5	2824.8	2867.8	2853.4
37.5°	2629.0	2669.7	2723.6	2761.0	2751.2
40°	2521.2	2558.6	2623.5	2647.7	2645.5
42.5°	2412.3	2443.2	2511.3	2538.8	2534.4
45°	2279.2	2319.9	2398.0	2424.5	2426.6
47.5°	2161.5	2195.7	2279.2	2300.1	2304.5
50°	2026.2	2069.1	2152.7	2178.0	2181.3
52.5°	1893.1	1939.3	2025.1	2042.7	2046.0
55°	1757.8	1799.6	1893.1	1906.4	1900.8
57.5°	1615.9	1666.5	1752.3	1758.9	1764.4
60°	1477.3	1521.3	1604.9	1613.7	1601.6
62.5°	1326.6	1371.7	1457.5	1459.7	1449.8
65°	1183.6	1217.7	1304.6	1302.4	1295.8
67.5°	1034.0	1075.8	1139.6	1141.8	1136.3
70°	894.3	922.9	984.5	985.6	972.4
72.5°	743.6	774.4	823.9	817.3	814.0
75°	597.3	621.5	660.0	664.4	653.4
77.5°	463.1	480.7	509.3	506.0	493.9
80°	325.6	339.9	360.8	356.4	343.2
82.5°	207.9	216.7	229.9	224.4	218.9
85°	113.3	114.4	115.5	114.4	111.1
87.5°	41.8	42.9	42.9	41.8	38.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)