

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: P489916

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5LO-35-120-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: P489916
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-35-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

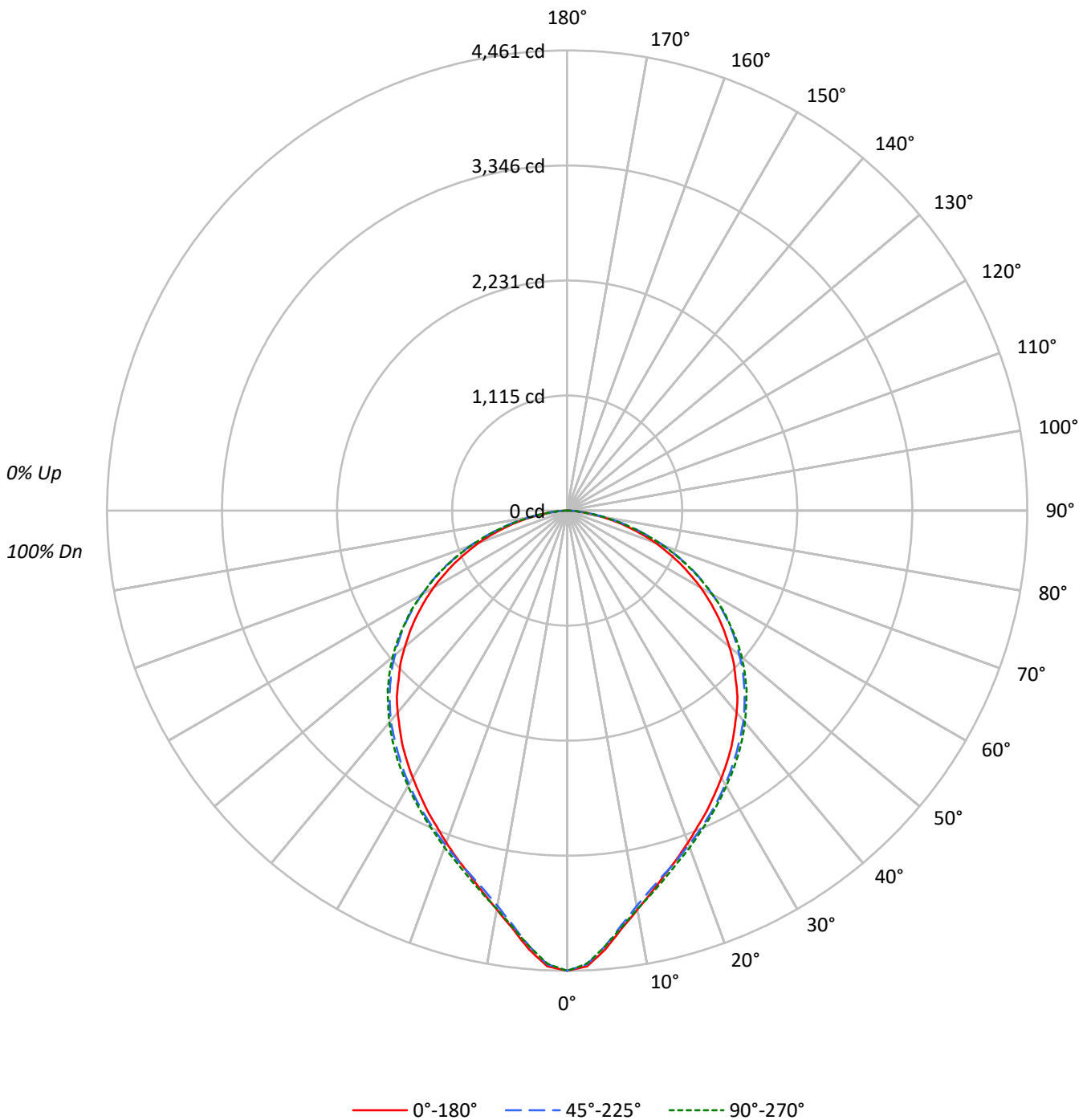
Lumens per Lamp: N/A
Luminaire Lumens: 10362.1 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	6002	6002	6002
5°	5763	5723	5723
10°	5364	5315	5356
15°	5090	5081	5130
20°	4903	4938	4977
25°	4763	4840	4869
30°	4648	4763	4792
35°	4568	4702	4750
40°	4487	4670	4709
45°	4395	4624	4679
50°	4298	4566	4627
55°	4179	4500	4518
60°	4028	4376	4367
65°	3819	4209	4181
70°	3565	3925	3877
75°	3147	3477	3442
80°	2556	2834	2694
85°	1772	1806	1738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.2	3.8
10°-20°	1032.5	10.0
20°-30°	1501.5	14.5
30°-40°	1786.7	17.2
40°-50°	1855.2	17.9
50°-60°	1680.8	16.2
60°-70°	1268.3	12.2
70°-80°	691.0	6.7
80°-90°	151.8	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°	2928.2	28.3
0°-40°	4714.9	45.5
0°-60°	8250.9	79.6
0°-90°	10362.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10362.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4461	4461	4461	4461	4461	
5°	4267	4257	4237	4235	4237	396
15°	3654	3645	3647	3672	3683	1031
25°	3208	3235	3260	3287	3280	1478
35°	2781	2815	2863	2906	2892	1739
45°	2310	2351	2430	2457	2459	1785
55°	1781	1824	1918	1932	1926	1590
65°	1199	1234	1322	1320	1313	1186
75°	605	630	669	673	662	645
85°	115	116	117	116	113	145
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4461.0	4461.0	4461.0	4461.0	4461.0
2.5°	4422.0	4417.6	4403.1	4397.5	4396.3
5°	4267.1	4257.0	4237.0	4234.8	4237.0
7.5°	4082.0	4070.9	4050.9	4058.6	4068.7
10°	3926.0	3898.1	3890.3	3901.4	3920.4
12.5°	3786.6	3764.3	3757.6	3786.6	3800.1
15°	3653.9	3645.0	3647.3	3671.9	3682.9
17.5°	3539.2	3533.6	3548.1	3567.1	3572.6
20°	3424.4	3435.5	3448.9	3469.0	3475.6
22.5°	3311.8	3332.9	3355.3	3382.0	3373.1
25°	3208.1	3234.9	3260.5	3287.3	3279.5
27.5°	3097.7	3128.9	3164.6	3193.6	3182.5
30°	2991.8	3030.9	3065.4	3101.1	3084.4
32.5°	2887.1	2923.9	2965.1	3008.6	2989.6
35°	2781.2	2814.6	2862.6	2906.1	2891.6
37.5°	2664.2	2705.4	2760.0	2797.9	2787.9
40°	2554.9	2592.8	2658.6	2683.1	2680.8
42.5°	2444.5	2475.8	2544.9	2572.7	2568.3
45°	2309.7	2350.9	2430.0	2456.8	2459.0
47.5°	2190.4	2225.0	2309.7	2330.8	2335.3
50°	2053.3	2096.8	2181.5	2207.1	2210.5
52.5°	1918.4	1965.2	2052.2	2070.0	2073.4
55°	1781.3	1823.6	1918.4	1931.8	1926.2
57.5°	1637.5	1688.8	1775.8	1782.4	1788.0
60°	1497.0	1541.6	1626.3	1635.2	1623.0
62.5°	1344.4	1390.0	1477.0	1479.2	1469.1
65°	1199.4	1234.0	1322.0	1319.8	1313.1
67.5°	1047.8	1090.1	1154.8	1157.0	1151.5
70°	906.2	935.2	997.7	998.8	985.4
72.5°	753.6	784.7	834.9	828.2	824.9
75°	605.3	629.8	668.9	673.3	662.1
77.5°	469.3	487.1	516.1	512.8	500.5
80°	329.9	344.4	365.7	361.2	347.7
82.5°	210.6	219.6	233.0	227.4	221.8
85°	114.8	115.9	117.0	115.9	112.6
87.5°	42.4	43.5	43.5	42.4	39.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)