

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: P489885

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4LO-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: P489885
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-LD4-4LO-50-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

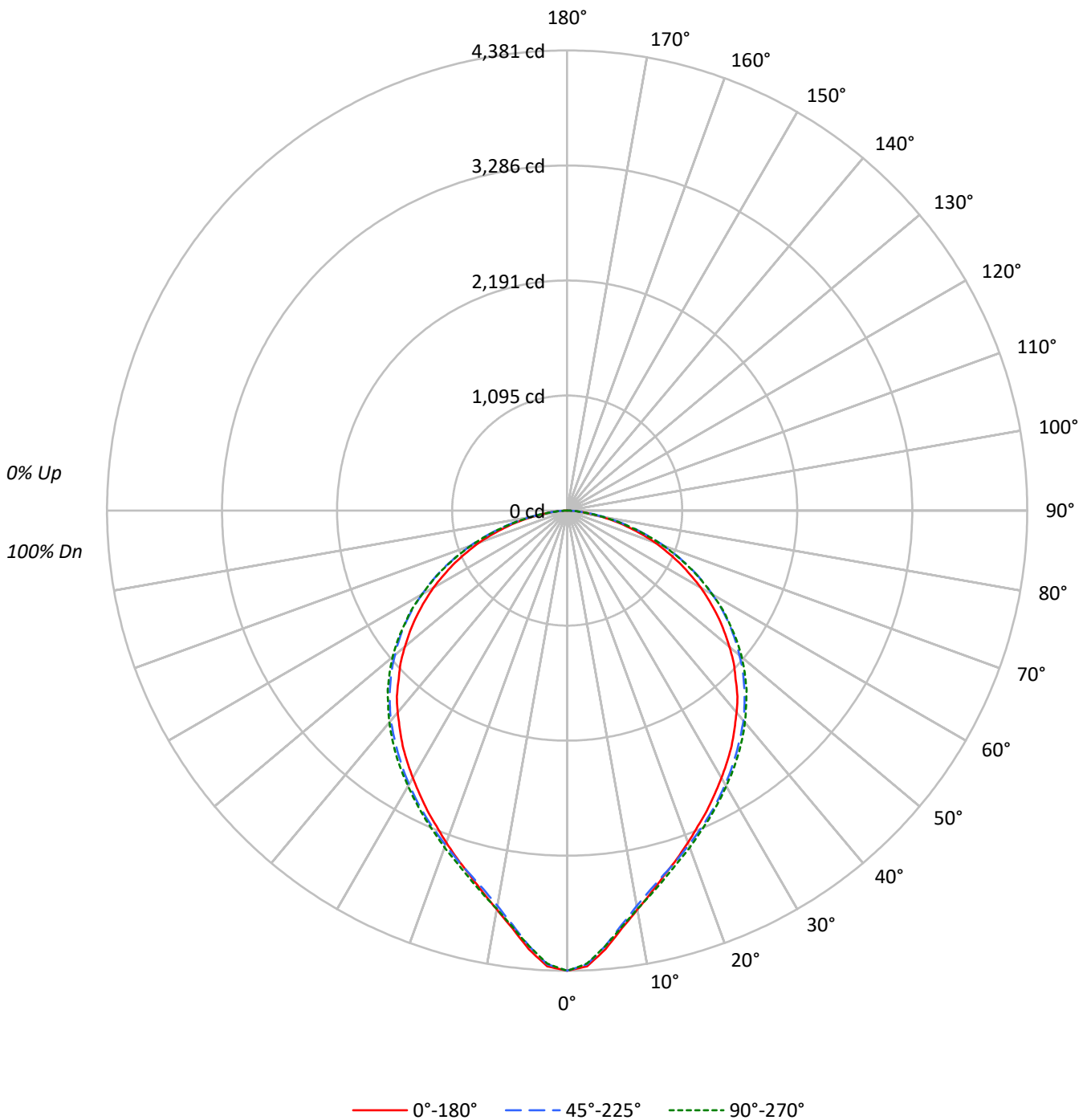
Lumens per Lamp: N/A
Luminaire Lumens: 10175.8 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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°	5894	5894	5894
5°	5660	5620	5620
10°	5267	5219	5260
15°	4998	4989	5038
20°	4815	4849	4887
25°	4677	4753	4781
30°	4565	4677	4706
35°	4486	4617	4664
40°	4407	4586	4624
45°	4316	4541	4595
50°	4221	4484	4544
55°	4103	4419	4437
60°	3956	4298	4289
65°	3750	4133	4105
70°	3501	3854	3807
75°	3090	3414	3380
80°	2510	2782	2646
85°	1741	1774	1706



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.1	3.8
10°-20°	1014.0	10.0
20°-30°	1474.5	14.5
30°-40°	1754.6	17.2
40°-50°	1821.9	17.9
50°-60°	1650.5	16.2
60°-70°	1245.5	12.2
70°-80°	678.6	6.7
80°-90°	149.1	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°	2875.6	28.3
0°-40°	4630.2	45.5
0°-60°	8102.6	79.6
0°-90°	10175.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10175.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4381	4381	4381	4381	4381	
5°	4190	4180	4161	4159	4161	389
15°	3588	3580	3582	3606	3617	1013
25°	3150	3177	3202	3228	3220	1452
35°	2731	2764	2811	2854	2840	1708
45°	2268	2309	2386	2413	2415	1753
55°	1749	1791	1884	1897	1892	1562
65°	1178	1212	1298	1296	1290	1164
75°	594	618	657	661	650	633
85°	113	114	115	114	110	142
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4380.8	4380.8	4380.8	4380.8	4380.8
2.5°	4342.5	4338.1	4323.9	4318.4	4317.3
5°	4190.4	4180.5	4160.8	4158.6	4160.8
7.5°	4008.6	3997.7	3978.0	3985.7	3995.5
10°	3855.4	3828.0	3820.3	3831.3	3849.9
12.5°	3718.5	3696.7	3690.0	3718.5	3731.7
15°	3588.3	3579.5	3581.7	3605.8	3616.7
17.5°	3475.6	3470.1	3484.3	3502.9	3508.4
20°	3362.8	3373.8	3386.9	3406.6	3413.1
22.5°	3252.3	3273.0	3295.0	3321.2	3312.5
25°	3150.5	3176.7	3201.9	3228.2	3220.5
27.5°	3042.1	3072.7	3107.7	3136.2	3125.2
30°	2938.0	2976.4	3010.3	3045.3	3028.9
32.5°	2835.2	2871.3	2911.8	2954.5	2935.9
35°	2731.2	2764.0	2811.1	2853.8	2839.6
37.5°	2616.3	2656.7	2710.3	2747.6	2737.8
40°	2509.0	2546.2	2610.8	2634.9	2632.6
42.5°	2400.6	2431.3	2499.1	2526.5	2522.1
45°	2268.2	2308.6	2386.3	2412.7	2414.8
47.5°	2151.0	2185.0	2268.2	2288.9	2293.3
50°	2016.4	2059.1	2142.3	2167.4	2170.7
52.5°	1883.9	1929.8	2015.3	2032.8	2036.1
55°	1749.2	1790.8	1883.9	1897.1	1891.6
57.5°	1608.1	1658.4	1743.8	1750.3	1755.8
60°	1470.1	1513.9	1597.1	1605.8	1593.8
62.5°	1320.2	1365.0	1450.4	1452.6	1442.7
65°	1177.8	1211.8	1298.2	1296.1	1289.5
67.5°	1028.9	1070.5	1134.1	1136.2	1130.8
70°	889.9	918.4	979.7	980.8	967.7
72.5°	740.0	770.6	819.9	813.3	810.1
75°	594.4	618.5	656.8	661.2	650.2
77.5°	460.9	478.4	506.8	503.6	491.5
80°	324.0	338.2	359.1	354.7	341.5
82.5°	206.8	215.7	228.8	223.3	217.8
85°	112.8	113.8	114.9	113.8	110.5
87.5°	41.6	42.7	42.7	41.6	38.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)