

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: P489792

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2HI-27-120-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: P489792
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-LD4-2HI-27-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

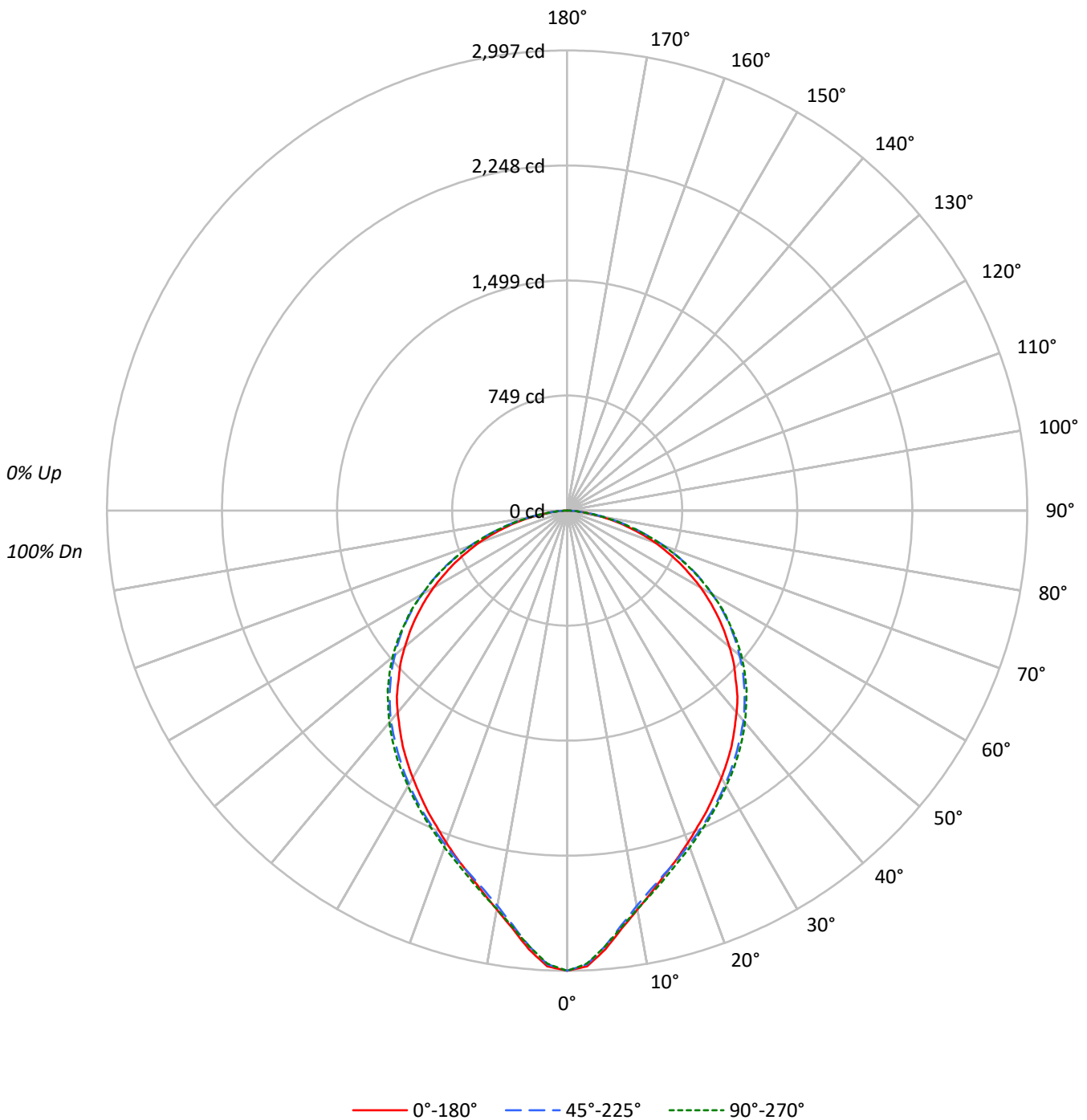
Lumens per Lamp: N/A
Luminaire Lumens: 6961.3 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
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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CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-2HI-27-120-EDD-90

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°	4032	4032	4032
5°	3872	3844	3844
10°	3603	3571	3598
15°	3419	3413	3446
20°	3294	3318	3343
25°	3200	3252	3271
30°	3123	3200	3219
35°	3069	3159	3191
40°	3015	3137	3163
45°	2953	3106	3143
50°	2887	3068	3108
55°	2807	3023	3035
60°	2706	2940	2934
65°	2565	2827	2808
70°	2395	2637	2604
75°	2114	2336	2312
80°	1717	1903	1810
85°	1192	1213	1167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.8	3.8
10°-20°	693.7	10.0
20°-30°	1008.7	14.5
30°-40°	1200.3	17.2
40°-50°	1246.4	17.9
50°-60°	1129.1	16.2
60°-70°	852.0	12.2
70°-80°	464.2	6.7
80°-90°	102.0	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°	1967.2	28.3
0°-40°	3167.5	45.5
0°-60°	5543.0	79.6
0°-90°	6961.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6961.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2997	2997	2997	2997	2997	
5°	2867	2860	2846	2845	2846	266
15°	2455	2449	2450	2467	2474	693
25°	2155	2173	2190	2208	2203	993
35°	1868	1891	1923	1952	1943	1168
45°	1552	1579	1632	1650	1652	1199
55°	1197	1225	1289	1298	1294	1068
65°	806	829	888	887	882	797
75°	407	423	449	452	445	433
85°	77	78	79	78	76	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2997.0	2997.0	2997.0	2997.0	2997.0
2.5°	2970.7	2967.7	2958.0	2954.2	2953.5
5°	2866.6	2859.9	2846.4	2844.9	2846.4
7.5°	2742.3	2734.8	2721.4	2726.6	2733.4
10°	2637.5	2618.8	2613.5	2621.0	2633.7
12.5°	2543.9	2528.9	2524.4	2543.9	2552.9
15°	2454.7	2448.8	2450.3	2466.8	2474.2
17.5°	2377.6	2373.9	2383.6	2396.4	2400.1
20°	2300.5	2308.0	2317.0	2330.5	2334.9
22.5°	2224.9	2239.1	2254.1	2272.0	2266.1
25°	2155.2	2173.2	2190.4	2208.4	2203.2
27.5°	2081.1	2102.0	2126.0	2145.5	2138.0
30°	2009.9	2036.1	2059.4	2083.3	2072.1
32.5°	1939.6	1964.3	1992.0	2021.2	2008.4
35°	1868.4	1890.9	1923.1	1952.3	1942.6
37.5°	1789.8	1817.5	1854.1	1879.6	1872.9
40°	1716.4	1741.9	1786.0	1802.5	1801.0
42.5°	1642.2	1663.2	1709.7	1728.4	1725.4
45°	1551.7	1579.3	1632.5	1650.5	1652.0
47.5°	1471.5	1494.8	1551.7	1565.9	1568.8
50°	1379.4	1408.6	1465.5	1482.7	1485.0
52.5°	1288.8	1320.2	1378.6	1390.6	1392.9
55°	1196.7	1225.1	1288.8	1297.8	1294.0
57.5°	1100.1	1134.5	1193.0	1197.4	1201.2
60°	1005.7	1035.7	1092.6	1098.6	1090.3
62.5°	903.1	933.8	992.3	993.7	987.0
65°	805.7	829.0	888.1	886.7	882.1
67.5°	703.9	732.4	775.8	777.3	773.6
70°	608.8	628.3	670.2	671.0	662.0
72.5°	506.2	527.2	560.9	556.4	554.2
75°	406.6	423.1	449.3	452.3	444.8
77.5°	315.3	327.3	346.7	344.5	336.2
80°	221.6	231.4	245.6	242.7	233.6
82.5°	141.5	147.6	156.5	152.8	149.0
85°	77.2	77.9	78.6	77.9	75.6
87.5°	28.5	29.2	29.2	28.5	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)