

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: P489794

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2HI-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: P489794  
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-30-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

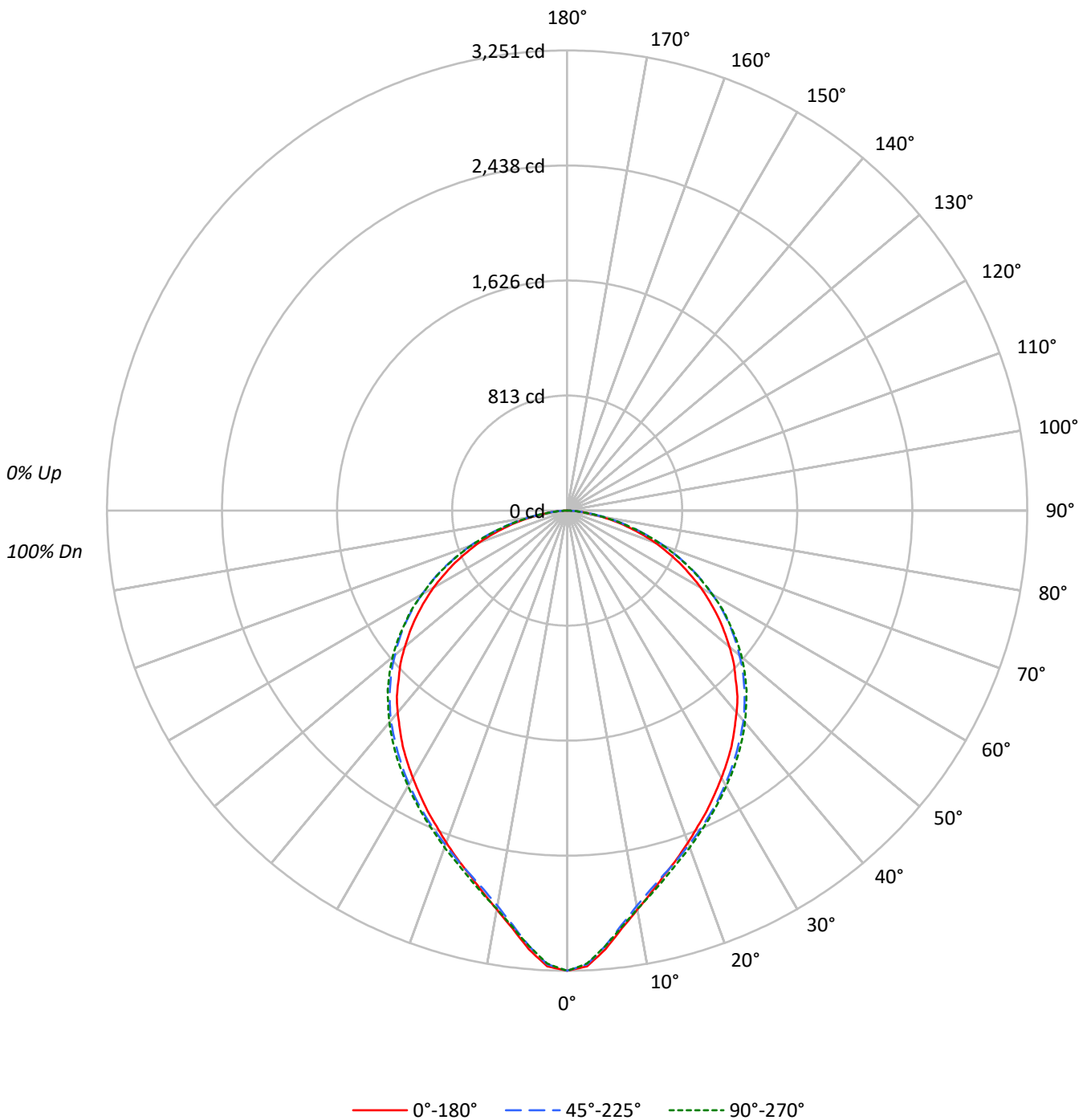
Lumens per Lamp: N/A  
Luminaire Lumens: 7551.1 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P489794

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-2HI-30-120-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P489794

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-2HI-30-120-EDD-90

**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°	4374	4374	4374
5°	4200	4170	4170
10°	3909	3873	3903
15°	3709	3702	3738
20°	3573	3599	3627
25°	3471	3527	3548
30°	3387	3471	3492
35°	3329	3426	3461
40°	3270	3403	3431
45°	3203	3369	3410
50°	3132	3328	3372
55°	3045	3279	3293
60°	2936	3189	3183
65°	2783	3067	3046
70°	2598	2860	2825
75°	2293	2534	2508
80°	1863	2065	1963
85°	1292	1317	1266



TEST NUMBER: P489794

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-2HI-30-120-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.3	3.8
10°-20°	752.4	10.0
20°-30°	1094.2	14.5
30°-40°	1302.0	17.2
40°-50°	1352.0	17.9
50°-60°	1224.8	16.2
60°-70°	924.2	12.2
70°-80°	503.6	6.7
80°-90°	110.7	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°	2133.9	28.3
0°-40°	3435.9	45.5
0°-60°	6012.6	79.6
0°-90°	7551.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7551.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3251	3251	3251	3251	3251	
5°	3110	3102	3088	3086	3088	289
15°	2663	2656	2658	2676	2684	752
25°	2338	2357	2376	2396	2390	1077
35°	2027	2051	2086	2118	2107	1267
45°	1683	1713	1771	1790	1792	1301
55°	1298	1329	1398	1408	1404	1159
65°	874	899	963	962	957	864
75°	441	459	487	491	482	470
85°	84	84	85	84	82	106
90°	0	0	0	0	0	



TEST NUMBER: P489794

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-2HI-30-120-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3250.9	3250.9	3250.9	3250.9	3250.9
2.5°	3222.4	3219.2	3208.6	3204.5	3203.7
5°	3109.5	3102.2	3087.6	3086.0	3087.6
7.5°	2974.7	2966.5	2952.0	2957.6	2964.9
10°	2861.0	2840.7	2834.9	2843.1	2856.9
12.5°	2759.4	2743.2	2738.3	2759.4	2769.2
15°	2662.7	2656.2	2657.9	2675.8	2683.8
17.5°	2579.1	2575.0	2585.6	2599.4	2603.5
20°	2495.4	2503.6	2513.3	2527.9	2532.8
22.5°	2413.4	2428.8	2445.1	2464.5	2458.1
25°	2337.8	2357.3	2376.0	2395.5	2389.8
27.5°	2257.4	2280.1	2306.1	2327.3	2319.1
30°	2180.2	2208.7	2233.9	2259.8	2247.7
32.5°	2103.9	2130.7	2160.7	2192.4	2178.6
35°	2026.7	2051.1	2086.0	2117.7	2107.2
37.5°	1941.4	1971.5	2011.2	2038.9	2031.6
40°	1861.8	1889.4	1937.4	1955.2	1953.6
42.5°	1781.4	1804.2	1854.5	1874.8	1871.6
45°	1683.1	1713.2	1770.8	1790.4	1791.9
47.5°	1596.2	1621.4	1683.1	1698.5	1701.8
50°	1496.3	1528.0	1589.7	1608.3	1610.8
52.5°	1398.0	1432.1	1495.5	1508.4	1510.9
55°	1298.0	1328.9	1398.0	1407.8	1403.7
57.5°	1193.3	1230.6	1294.0	1298.9	1302.9
60°	1090.9	1123.4	1185.1	1191.6	1182.7
62.5°	979.7	1012.9	1076.3	1077.9	1070.6
65°	874.0	899.2	963.4	961.8	956.9
67.5°	763.5	794.4	841.6	843.2	839.1
70°	660.4	681.5	727.0	727.8	718.1
72.5°	549.1	571.9	608.4	603.6	601.1
75°	441.1	459.0	487.4	490.7	482.5
77.5°	342.0	355.0	376.1	373.7	364.7
80°	240.4	251.0	266.5	263.2	253.4
82.5°	153.5	160.1	169.8	165.7	161.6
85°	83.7	84.4	85.3	84.4	82.0
87.5°	30.9	31.7	31.7	30.9	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)