

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: P489846

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3LO-40-120-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: P489846  
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-LD4-3LO-40-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

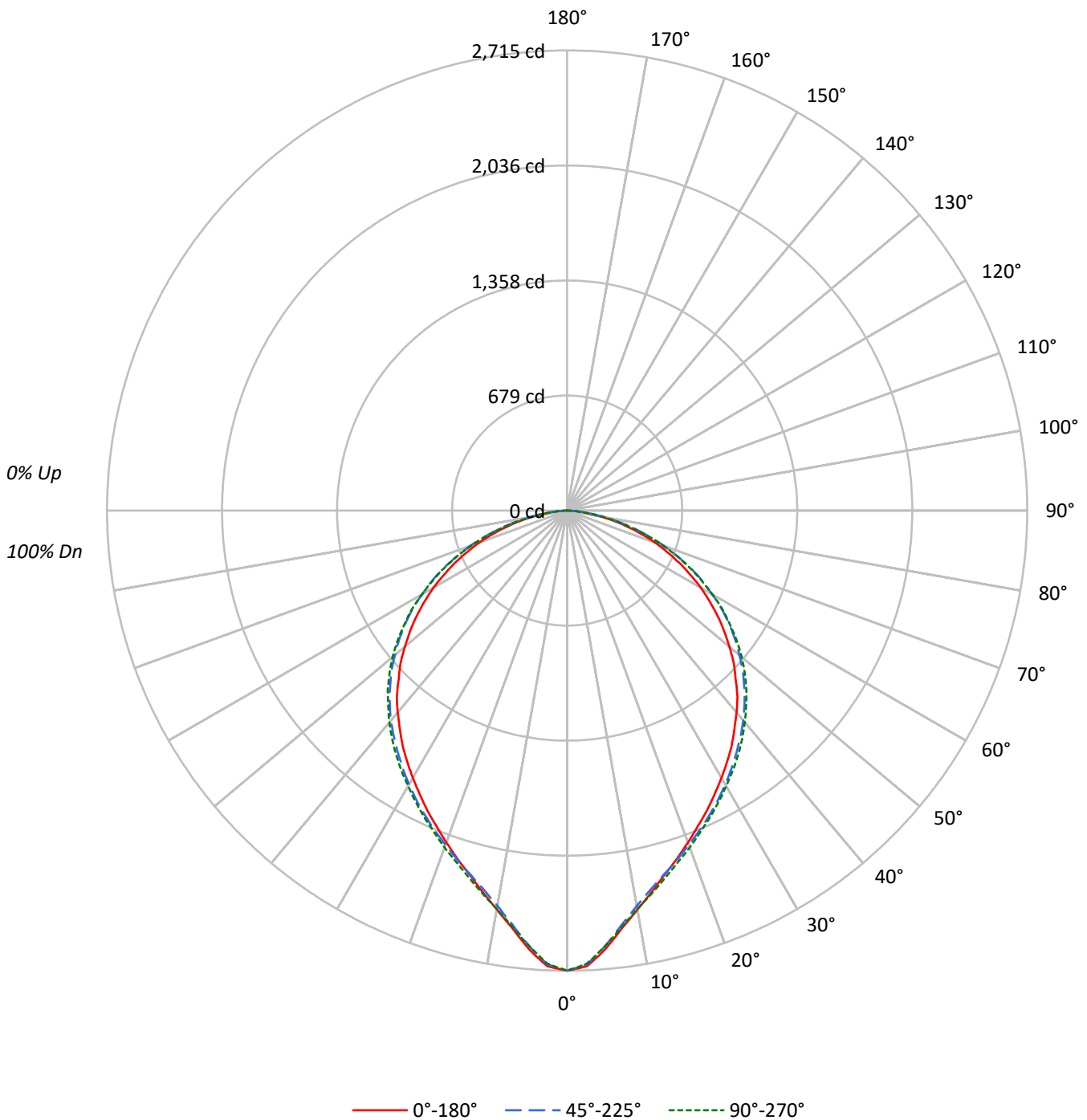
Lumens per Lamp: N/A  
Luminaire Lumens: 6305.5 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 70.2  
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°	3652	3652	3652
5°	3507	3482	3482
10°	3264	3234	3259
15°	3097	3092	3122
20°	2984	3005	3028
25°	2898	2946	2963
30°	2829	2898	2916
35°	2780	2861	2890
40°	2731	2842	2865
45°	2674	2814	2847
50°	2615	2779	2816
55°	2543	2738	2749
60°	2451	2663	2658
65°	2323	2561	2544
70°	2169	2388	2359
75°	1915	2116	2095
80°	1556	1724	1640
85°	1079	1099	1057



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.9	3.8
10°-20°	628.3	10.0
20°-30°	913.7	14.5
30°-40°	1087.3	17.2
40°-50°	1128.9	17.9
50°-60°	1022.8	16.2
60°-70°	771.8	12.2
70°-80°	420.5	6.7
80°-90°	92.4	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°	1781.9	28.3
0°-40°	2869.1	45.5
0°-60°	5020.8	79.6
0°-90°	6305.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6305.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2715	2715	2715	2715	2715	
5°	2597	2590	2578	2577	2578	241
15°	2224	2218	2219	2234	2241	628
25°	1952	1968	1984	2000	1996	900
35°	1692	1713	1742	1768	1760	1058
45°	1406	1431	1479	1495	1496	1086
55°	1084	1110	1167	1176	1172	968
65°	730	751	804	803	799	722
75°	368	383	407	410	403	392
85°	70	70	71	70	68	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2714.6	2714.6	2714.6	2714.6	2714.6
2.5°	2690.9	2688.2	2679.3	2675.9	2675.2
5°	2596.6	2590.5	2578.3	2576.9	2578.3
7.5°	2484.0	2477.2	2465.0	2469.7	2475.9
10°	2389.0	2372.1	2367.3	2374.1	2385.6
12.5°	2304.2	2290.7	2286.6	2304.2	2312.4
15°	2223.5	2218.1	2219.4	2234.4	2241.1
17.5°	2153.7	2150.3	2159.1	2170.6	2174.0
20°	2083.8	2090.6	2098.7	2110.9	2115.0
22.5°	2015.3	2028.1	2041.7	2058.0	2052.6
25°	1952.2	1968.5	1984.1	2000.3	1995.6
27.5°	1885.0	1904.0	1925.7	1943.4	1936.6
30°	1820.6	1844.3	1865.4	1887.0	1876.9
32.5°	1756.9	1779.2	1804.3	1830.8	1819.2
35°	1692.4	1712.7	1741.9	1768.4	1759.6
37.5°	1621.2	1646.3	1679.5	1702.5	1696.5
40°	1554.7	1577.8	1617.8	1632.7	1631.3
42.5°	1487.5	1506.6	1548.6	1565.5	1562.8
45°	1405.5	1430.6	1478.7	1495.0	1496.4
47.5°	1332.9	1353.9	1405.5	1418.3	1421.1
50°	1249.5	1275.9	1327.5	1343.0	1345.1
52.5°	1167.4	1195.8	1248.8	1259.6	1261.7
55°	1083.9	1109.7	1167.4	1175.5	1172.1
57.5°	996.5	1027.6	1080.6	1084.6	1088.0
60°	910.9	938.1	989.6	995.1	987.6
62.5°	818.1	845.8	898.8	900.1	894.0
65°	729.8	750.9	804.5	803.1	799.0
67.5°	637.6	663.4	702.7	704.1	700.7
70°	551.4	569.1	607.1	607.8	599.6
72.5°	458.6	477.5	508.0	504.0	502.0
75°	368.3	383.3	407.0	409.7	402.9
77.5°	285.6	296.4	314.1	312.0	304.6
80°	200.8	209.6	222.5	219.8	211.6
82.5°	128.2	133.7	141.8	138.4	135.0
85°	69.9	70.5	71.2	70.5	68.5
87.5°	25.8	26.5	26.5	25.8	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)