

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: P489758

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1HI-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: P489758  
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-LD4-1HI-30-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

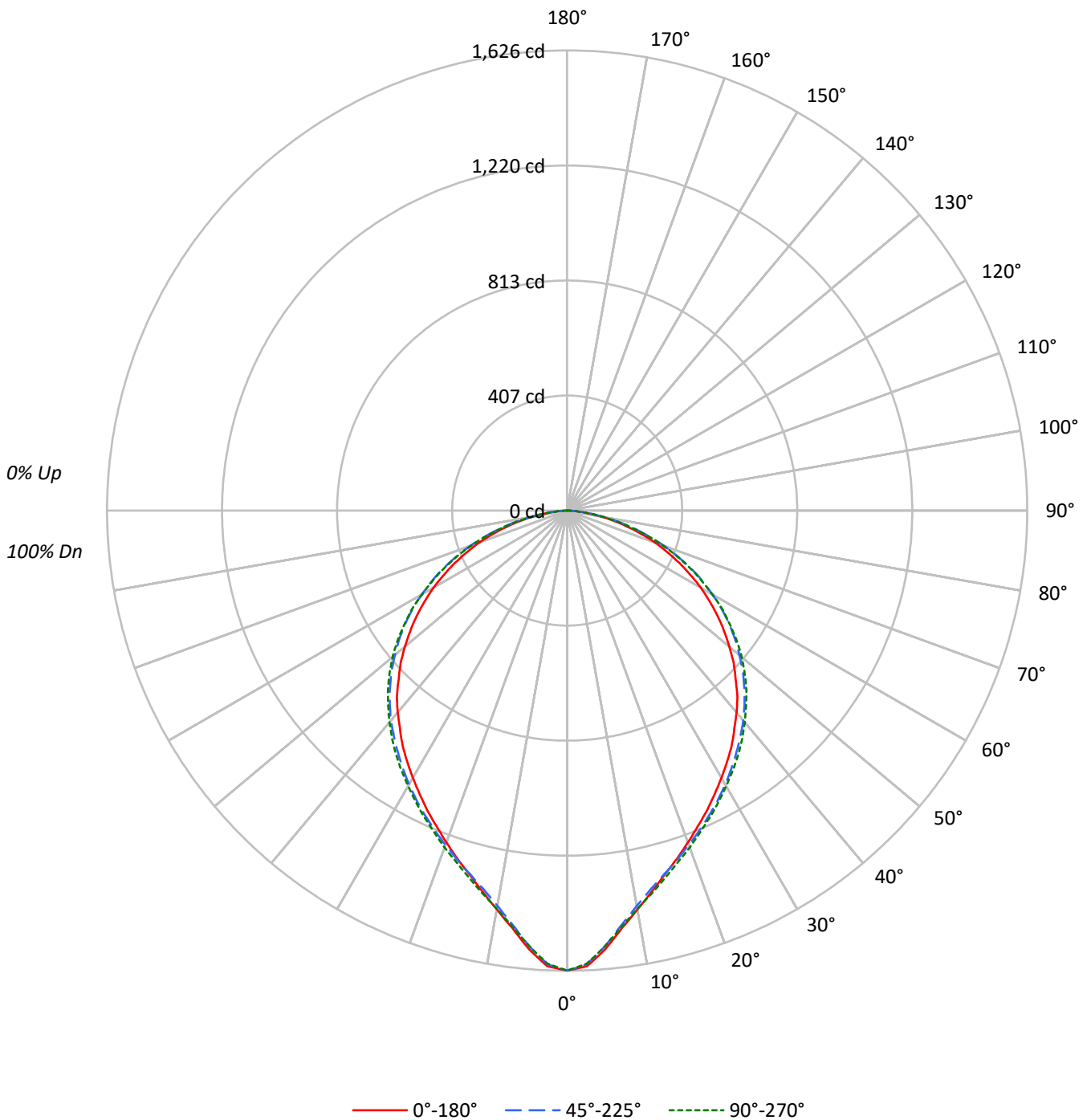
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3775.6 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): 43.2  
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°	2187	2187	2187
5°	2100	2085	2085
10°	1954	1937	1952
15°	1855	1851	1869
20°	1787	1799	1813
25°	1735	1764	1774
30°	1694	1735	1746
35°	1665	1713	1731
40°	1635	1701	1716
45°	1601	1685	1705
50°	1566	1664	1686
55°	1522	1640	1647
60°	1468	1595	1591
65°	1391	1534	1523
70°	1299	1430	1413
75°	1146	1267	1254
80°	931	1032	982
85°	645	658	633



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.6	3.8
10°-20°	376.2	10.0
20°-30°	547.1	14.5
30°-40°	651.0	17.2
40°-50°	676.0	17.9
50°-60°	612.4	16.2
60°-70°	462.1	12.2
70°-80°	251.8	6.7
80°-90°	55.3	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°	1066.9	28.3
0°-40°	1718.0	45.5
0°-60°	3006.4	79.6
0°-90°	3775.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3775.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1626	1626	1626	1626	1626	
5°	1555	1551	1544	1543	1544	144
15°	1331	1328	1329	1338	1342	376
25°	1169	1179	1188	1198	1195	539
35°	1013	1026	1043	1059	1054	634
45°	842	857	885	895	896	651
55°	649	664	699	704	702	580
65°	437	450	482	481	478	432
75°	220	230	244	245	241	235
85°	42	42	43	42	41	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1625.5	1625.5	1625.5	1625.5	1625.5
2.5°	1611.2	1609.6	1604.3	1602.3	1601.9
5°	1554.8	1551.1	1543.8	1543.0	1543.8
7.5°	1487.4	1483.3	1476.0	1478.8	1482.5
10°	1430.5	1420.3	1417.5	1421.6	1428.5
12.5°	1379.7	1371.6	1369.1	1379.7	1384.6
15°	1331.4	1328.1	1329.0	1337.9	1341.9
17.5°	1289.6	1287.5	1292.8	1299.7	1301.8
20°	1247.7	1251.8	1256.7	1264.0	1266.4
22.5°	1206.7	1214.4	1222.6	1232.3	1229.0
25°	1168.9	1178.7	1188.0	1197.8	1194.9
27.5°	1128.7	1140.1	1153.1	1163.7	1159.6
30°	1090.1	1104.3	1116.9	1129.9	1123.8
32.5°	1052.0	1065.4	1080.4	1096.2	1089.3
35°	1013.4	1025.6	1043.0	1058.9	1053.6
37.5°	970.7	985.7	1005.6	1019.4	1015.8
40°	930.9	944.7	968.7	977.6	976.8
42.5°	890.7	902.1	927.3	937.4	935.8
45°	841.6	856.6	885.4	895.2	896.0
47.5°	798.1	810.7	841.6	849.3	850.9
50°	748.1	764.0	794.9	804.2	805.4
52.5°	699.0	716.0	747.7	754.2	755.5
55°	649.0	664.5	699.0	703.9	701.9
57.5°	596.7	615.3	647.0	649.4	651.5
60°	545.5	561.7	592.6	595.8	591.4
62.5°	489.8	506.5	538.2	539.0	535.3
65°	437.0	449.6	481.7	480.9	478.4
67.5°	381.8	397.2	420.8	421.6	419.6
70°	330.2	340.8	363.5	363.9	359.1
72.5°	274.6	285.9	304.2	301.8	300.6
75°	220.5	229.5	243.7	245.3	241.3
77.5°	171.0	177.5	188.1	186.8	182.4
80°	120.2	125.5	133.2	131.6	126.7
82.5°	76.7	80.0	84.9	82.9	80.8
85°	41.8	42.2	42.6	42.2	41.0
87.5°	15.4	15.8	15.8	15.4	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)