

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: P489814

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2STD-20-120-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: P489814  
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-LD4-2STD-20-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

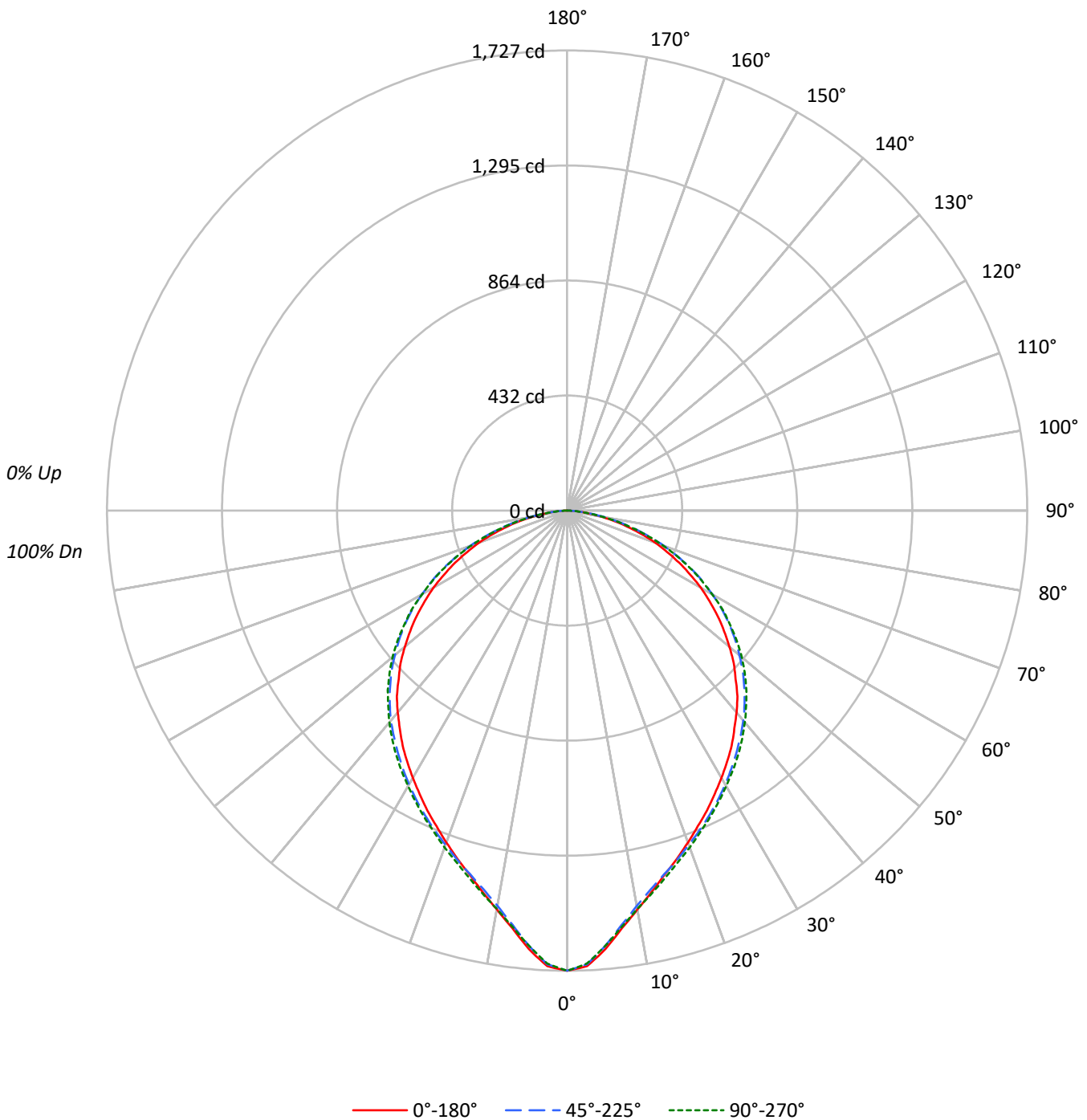
Lumens per Lamp: N/A  
Luminaire Lumens: 4010.9 lumens  
Efficiency: N/A  
Efficacy: 60.2 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 66.6  
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°	2323	2323	2323
5°	2231	2215	2215
10°	2076	2057	2073
15°	1970	1967	1986
20°	1898	1912	1926
25°	1844	1874	1885
30°	1799	1844	1855
35°	1768	1820	1838
40°	1737	1808	1823
45°	1701	1790	1811
50°	1664	1768	1791
55°	1617	1742	1749
60°	1559	1694	1690
65°	1478	1629	1618
70°	1380	1519	1500
75°	1218	1346	1332
80°	989	1096	1043
85°	687	699	673



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.6	3.8
10°-20°	399.7	10.0
20°-30°	581.2	14.5
30°-40°	691.6	17.2
40°-50°	718.1	17.9
50°-60°	650.6	16.2
60°-70°	490.9	12.2
70°-80°	267.5	6.7
80°-90°	58.8	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°	1133.4	28.3
0°-40°	1825.0	45.5
0°-60°	3193.7	79.6
0°-90°	4010.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4010.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1727	1727	1727	1727	1727	
5°	1652	1648	1640	1639	1640	153
15°	1414	1411	1412	1421	1426	399
25°	1242	1252	1262	1272	1269	572
35°	1076	1090	1108	1125	1119	673
45°	894	910	941	951	952	691
55°	690	706	742	748	746	616
65°	464	478	512	511	508	459
75°	234	244	259	261	256	250
85°	44	45	45	45	44	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1726.8	1726.8	1726.8	1726.8	1726.8
2.5°	1711.6	1709.9	1704.3	1702.1	1701.7
5°	1651.7	1647.8	1640.0	1639.2	1640.0
7.5°	1580.1	1575.7	1568.0	1571.0	1574.9
10°	1519.6	1508.9	1505.8	1510.1	1517.5
12.5°	1465.7	1457.1	1454.5	1465.7	1470.9
15°	1414.3	1410.9	1411.8	1421.3	1425.6
17.5°	1369.9	1367.8	1373.4	1380.7	1382.9
20°	1325.5	1329.8	1335.0	1342.8	1345.3
22.5°	1281.9	1290.1	1298.7	1309.1	1305.6
25°	1241.8	1252.1	1262.1	1272.4	1269.4
27.5°	1199.1	1211.1	1225.0	1236.2	1231.8
30°	1158.1	1173.2	1186.6	1200.3	1193.9
32.5°	1117.5	1131.8	1147.7	1164.5	1157.2
35°	1076.5	1089.5	1108.0	1124.9	1119.3
37.5°	1031.2	1047.2	1068.3	1083.0	1079.1
40°	988.9	1003.6	1029.1	1038.6	1037.7
42.5°	946.2	958.3	985.1	995.8	994.1
45°	894.0	910.0	940.6	951.0	951.8
47.5°	847.8	861.2	894.0	902.2	903.9
50°	794.8	811.6	844.4	854.3	855.6
52.5°	742.5	760.7	794.3	801.2	802.6
55°	689.5	705.9	742.5	747.8	745.6
57.5°	633.8	653.7	687.4	689.9	692.1
60°	579.4	596.7	629.5	633.0	628.2
62.5°	520.4	538.0	571.7	572.6	568.7
65°	464.2	477.6	511.7	510.9	508.3
67.5°	405.6	422.0	447.0	447.9	445.7
70°	350.8	362.0	386.2	386.6	381.4
72.5°	291.7	303.8	323.2	320.6	319.3
75°	234.3	243.8	258.9	260.6	256.3
77.5°	181.7	188.6	199.8	198.5	193.7
80°	127.7	133.3	141.5	139.8	134.6
82.5°	81.5	85.0	90.2	88.0	85.9
85°	44.5	44.9	45.3	44.9	43.6
87.5°	16.4	16.8	16.8	16.4	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)