

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: P489350

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4STD-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: P489350  
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-24-2-INS-P12125-LD4-4STD-30-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

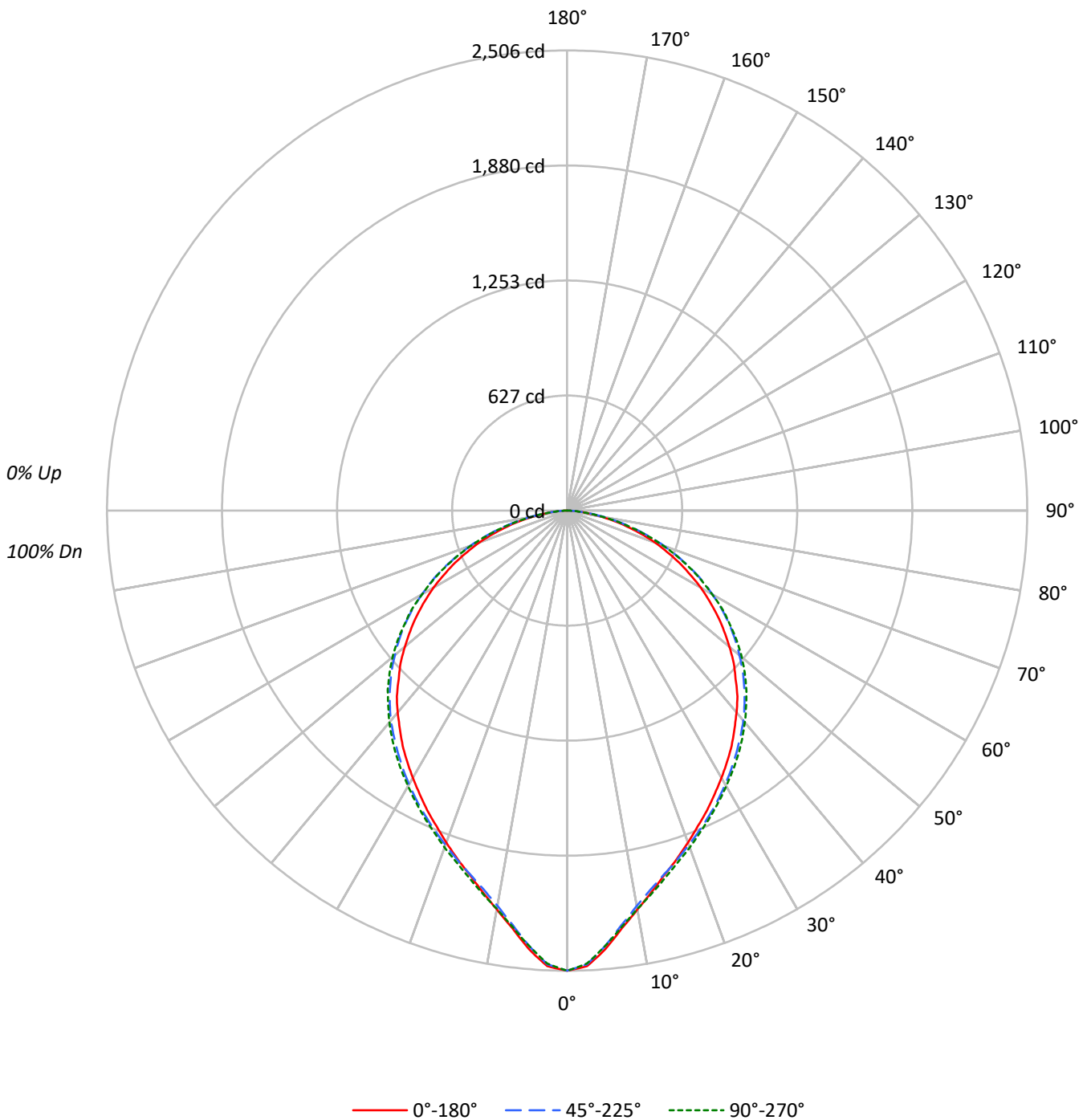
Lumens per Lamp: N/A  
Luminaire Lumens: 5820.4 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°	6743	6743	6743
5°	6474	6429	6429
10°	6026	5971	6017
15°	5718	5707	5763
20°	5508	5548	5591
25°	5350	5438	5470
30°	5222	5350	5383
35°	5132	5282	5336
40°	5041	5246	5290
45°	4937	5194	5256
50°	4828	5130	5198
55°	4694	5055	5076
60°	4526	4916	4907
65°	4290	4728	4697
70°	4005	4409	4355
75°	3535	3906	3867
80°	2872	3183	3027
85°	1991	2029	1951



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.4	3.8
10°-20°	580.0	10.0
20°-30°	843.4	14.5
30°-40°	1003.6	17.2
40°-50°	1042.1	17.9
50°-60°	944.1	16.2
60°-70°	712.4	12.2
70°-80°	388.2	6.7
80°-90°	85.3	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°	1644.8	28.3
0°-40°	2648.4	45.5
0°-60°	4634.5	79.6
0°-90°	5820.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5820.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2506	2506	2506	2506	2506	
5°	2397	2391	2380	2379	2380	222
15°	2052	2047	2049	2062	2069	579
25°	1802	1817	1831	1846	1842	830
35°	1562	1581	1608	1632	1624	977
45°	1297	1320	1365	1380	1381	1003
55°	1000	1024	1078	1085	1082	893
65°	674	693	743	741	738	666
75°	340	354	376	378	372	362
85°	64	65	66	65	63	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2505.8	2505.8	2505.8	2505.8	2505.8
2.5°	2483.8	2481.3	2473.2	2470.1	2469.4
5°	2396.8	2391.2	2379.9	2378.7	2379.9
7.5°	2292.9	2286.6	2275.4	2279.7	2285.4
10°	2205.2	2189.6	2185.2	2191.4	2202.1
12.5°	2126.9	2114.4	2110.6	2126.9	2134.5
15°	2052.4	2047.4	2048.7	2062.5	2068.7
17.5°	1988.0	1984.8	1993.0	2003.6	2006.8
20°	1923.5	1929.7	1937.3	1948.5	1952.3
22.5°	1860.2	1872.1	1884.7	1899.7	1894.7
25°	1802.0	1817.0	1831.4	1846.5	1842.1
27.5°	1740.0	1757.5	1777.6	1793.9	1787.6
30°	1680.5	1702.4	1721.9	1741.9	1732.5
32.5°	1621.7	1642.3	1665.5	1689.9	1679.3
35°	1562.2	1581.0	1607.9	1632.3	1624.2
37.5°	1496.5	1519.6	1550.3	1571.6	1566.0
40°	1435.1	1456.4	1493.3	1507.1	1505.8
42.5°	1373.1	1390.7	1429.5	1445.1	1442.6
45°	1297.4	1320.5	1364.9	1380.0	1381.2
47.5°	1230.3	1249.8	1297.4	1309.2	1311.7
50°	1153.3	1177.8	1225.3	1239.7	1241.6
52.5°	1077.5	1103.8	1152.7	1162.7	1164.6
55°	1000.5	1024.3	1077.5	1085.1	1082.0
57.5°	919.8	948.6	997.4	1001.2	1004.3
60°	840.9	865.9	913.5	918.5	911.7
62.5°	755.1	780.8	829.6	830.9	825.2
65°	673.7	693.1	742.6	741.3	737.6
67.5°	588.5	612.3	648.7	649.9	646.8
70°	509.0	525.3	560.4	561.0	553.5
72.5°	423.3	440.8	468.9	465.2	463.4
75°	340.0	353.8	375.7	378.2	371.9
77.5°	263.6	273.6	289.9	288.0	281.1
80°	185.3	193.5	205.4	202.9	195.3
82.5°	118.3	123.4	130.9	127.7	124.6
85°	64.5	65.1	65.7	65.1	63.2
87.5°	23.8	24.4	24.4	23.8	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)