

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: P489340

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4LO-35-120-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: P489340  
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-LD4-4LO-35-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

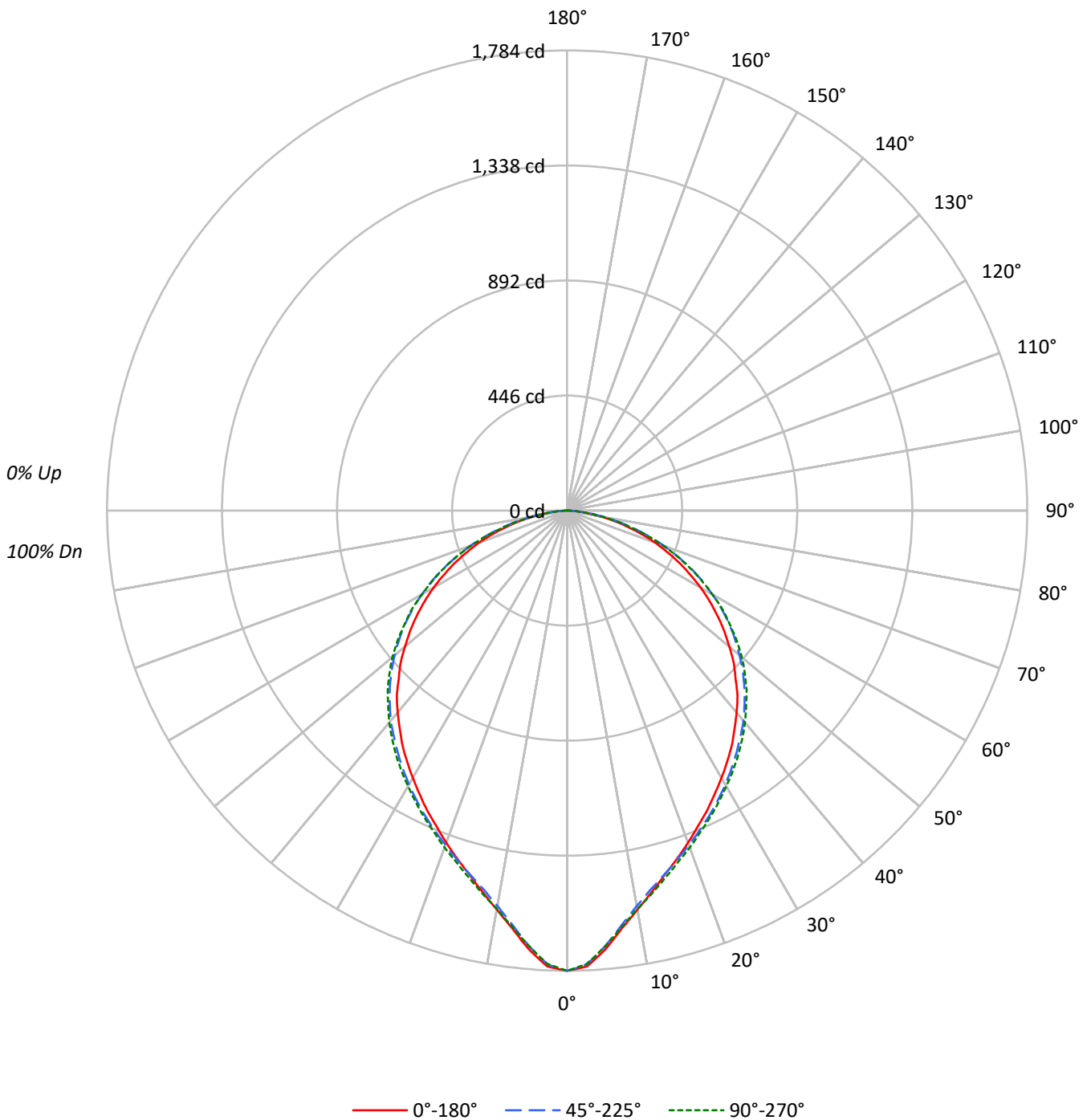
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4144.7 lumens  
Efficiency: N/A  
Efficacy: 88.6 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): 46.8  
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°	4802	4802	4802
5°	4611	4578	4578
10°	4291	4252	4285
15°	4072	4064	4104
20°	3922	3950	3981
25°	3810	3872	3895
30°	3718	3810	3833
35°	3654	3761	3800
40°	3590	3736	3767
45°	3516	3699	3743
50°	3438	3653	3702
55°	3343	3600	3615
60°	3223	3501	3494
65°	3054	3367	3344
70°	2852	3139	3102
75°	2517	2781	2753
80°	2046	2267	2156
85°	1417	1445	1389



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.7	3.8
10°-20°	413.0	10.0
20°-30°	600.6	14.5
30°-40°	714.7	17.2
40°-50°	742.1	17.9
50°-60°	672.3	16.2
60°-70°	507.3	12.2
70°-80°	276.4	6.7
80°-90°	60.7	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°	1171.2	28.3
0°-40°	1885.9	45.5
0°-60°	3300.3	79.6
0°-90°	4144.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4144.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1784	1784	1784	1784	1784	
5°	1707	1703	1695	1694	1695	158
15°	1462	1458	1459	1469	1473	413
25°	1283	1294	1304	1315	1312	591
35°	1112	1126	1145	1162	1157	695
45°	924	940	972	983	984	714
55°	712	729	767	773	770	636
65°	480	494	529	528	525	474
75°	242	252	268	269	265	258
85°	46	46	47	46	45	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1784.4	1784.4	1784.4	1784.4	1784.4
2.5°	1768.7	1767.0	1761.2	1758.9	1758.5
5°	1706.8	1702.8	1694.7	1693.9	1694.7
7.5°	1632.8	1628.3	1620.3	1623.4	1627.4
10°	1570.3	1559.2	1556.1	1560.5	1568.1
12.5°	1514.6	1505.7	1503.0	1514.6	1520.0
15°	1461.5	1458.0	1458.9	1468.7	1473.1
17.5°	1415.6	1413.4	1419.2	1426.8	1429.0
20°	1369.7	1374.2	1379.5	1387.5	1390.2
22.5°	1324.7	1333.1	1342.1	1352.8	1349.2
25°	1283.2	1293.9	1304.2	1314.9	1311.7
27.5°	1239.1	1251.5	1265.8	1277.4	1272.9
30°	1196.7	1212.3	1226.1	1240.4	1233.7
32.5°	1154.8	1169.5	1186.0	1203.4	1195.8
35°	1112.4	1125.8	1145.0	1162.4	1156.6
37.5°	1065.6	1082.1	1103.9	1119.1	1115.1
40°	1021.9	1037.1	1063.4	1073.2	1072.3
42.5°	977.8	990.3	1017.9	1029.1	1027.3
45°	923.8	940.3	972.0	982.7	983.6
47.5°	876.1	890.0	923.8	932.3	934.1
50°	821.3	838.7	872.6	882.8	884.2
52.5°	767.3	786.0	820.8	828.0	829.3
55°	712.5	729.4	767.3	772.7	770.5
57.5°	655.0	675.5	710.3	712.9	715.2
60°	598.8	616.6	650.5	654.1	649.2
62.5°	537.7	556.0	590.8	591.7	587.6
65°	479.7	493.6	528.8	527.9	525.2
67.5°	419.1	436.0	461.9	462.8	460.6
70°	362.5	374.1	399.0	399.5	394.2
72.5°	301.4	313.9	333.9	331.3	330.0
75°	242.1	251.9	267.5	269.3	264.8
77.5°	187.7	194.8	206.4	205.1	200.2
80°	132.0	137.8	146.3	144.5	139.1
82.5°	84.3	87.9	93.2	91.0	88.7
85°	45.9	46.4	46.8	46.4	45.0
87.5°	16.9	17.4	17.4	16.9	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)