

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: P488980

Luminaire Tested: **CLM-24-2-INS-A12125-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: P488980  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)  
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-A12125-LD4-4LO-35-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

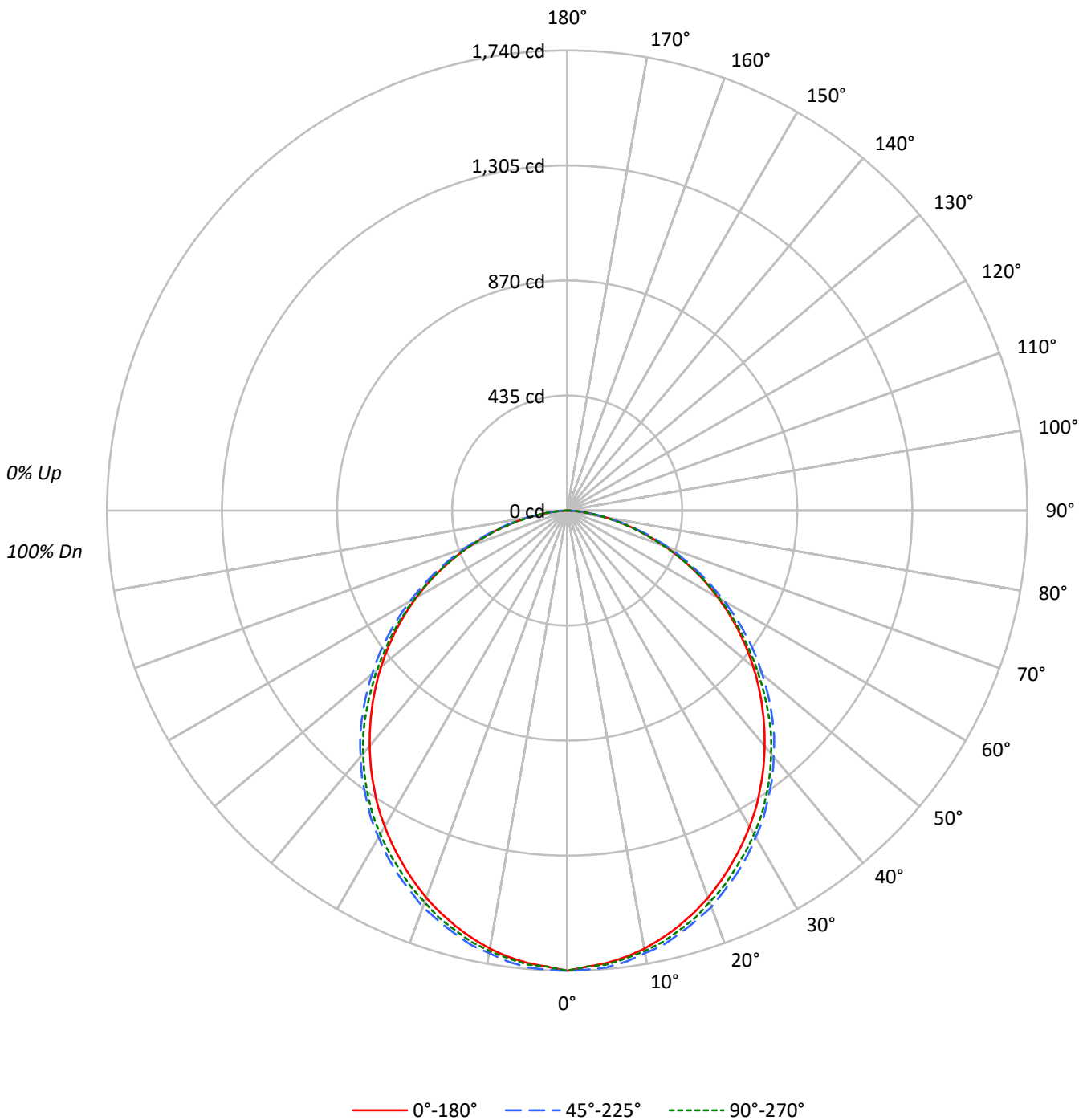
Lumens per Lamp: N/A  
Luminaire Lumens: 4574.5 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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	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					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51					51			
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4682	4682	4682
5°	4639	4683	4654
10°	4596	4643	4621
15°	4533	4606	4574
20°	4462	4567	4512
25°	4374	4502	4450
30°	4286	4432	4391
35°	4189	4356	4315
40°	4081	4269	4214
45°	3966	4166	4088
50°	3847	4033	3928
55°	3707	3881	3762
60°	3549	3697	3583
65°	3345	3473	3347
70°	3078	3202	3044
75°	2711	2833	2669
80°	2202	2298	2177
85°	1535	1633	1596



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.9	3.6
10°-20°	464.4	10.2
20°-30°	692.6	15.1
30°-40°	820.7	17.9
40°-50°	830.5	18.2
50°-60°	725.3	15.9
60°-70°	530.0	11.6
70°-80°	282.0	6.2
80°-90°	65.2	1.4
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°	1320.8	28.9
0°-40°	2141.6	46.8
0°-60°	3697.3	80.8
0°-90°	4574.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4574.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1740	1740	1740	1740	1740	
5°	1717	1721	1734	1737	1723	163
15°	1627	1638	1653	1663	1642	459
25°	1473	1491	1516	1522	1499	679
35°	1275	1295	1326	1335	1314	798
45°	1042	1061	1095	1096	1074	804
55°	790	806	827	815	802	706
65°	525	536	546	535	526	520
75°	261	267	272	262	257	277
85°	50	51	53	54	52	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1740.0	1740.0	1740.0	1740.0	1740.0
2.5°	1726.4	1732.0	1737.8	1740.3	1726.2
5°	1717.3	1720.6	1733.5	1737.4	1722.8
7.5°	1702.5	1707.3	1719.9	1721.7	1707.5
10°	1682.1	1690.8	1699.2	1708.3	1691.0
12.5°	1656.2	1668.0	1682.1	1683.8	1670.7
15°	1627.0	1637.9	1653.3	1663.3	1641.7
17.5°	1594.4	1604.9	1624.9	1626.7	1613.6
20°	1558.0	1571.0	1594.9	1599.1	1575.7
22.5°	1516.6	1534.2	1554.2	1558.1	1540.9
25°	1473.3	1491.4	1516.1	1521.7	1498.7
27.5°	1428.0	1445.4	1473.1	1477.1	1457.7
30°	1379.4	1395.7	1426.2	1432.9	1413.1
32.5°	1330.1	1346.4	1380.1	1385.7	1366.5
35°	1275.3	1295.3	1325.9	1335.2	1313.6
37.5°	1219.5	1238.9	1273.7	1282.1	1258.8
40°	1161.7	1180.9	1215.2	1222.0	1199.7
42.5°	1102.6	1121.8	1158.4	1159.5	1141.0
45°	1042.2	1060.7	1094.8	1095.7	1074.1
47.5°	980.9	999.6	1030.1	1026.6	1006.3
50°	918.9	936.7	963.4	956.5	938.2
52.5°	854.8	872.0	897.2	885.9	868.7
55°	790.2	806.2	827.2	815.2	801.8
57.5°	725.1	741.3	757.4	745.3	733.7
60°	659.5	673.7	686.9	674.6	665.7
62.5°	592.8	604.9	616.4	604.6	596.2
65°	525.4	536.1	545.5	534.6	525.7
67.5°	458.3	467.4	476.1	464.8	455.6
70°	391.2	399.0	407.0	395.4	386.9
72.5°	325.0	331.9	339.0	327.8	320.3
75°	260.7	266.7	272.5	262.5	256.7
77.5°	199.2	204.3	208.3	202.0	196.3
80°	142.1	145.9	148.3	145.8	140.5
82.5°	91.4	94.1	95.4	95.2	91.7
85°	49.7	50.6	52.9	53.5	51.7
87.5°	19.2	20.5	21.0	22.7	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)