

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: P488986

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4STD-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: P488986  
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-LD4-4STD-20-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

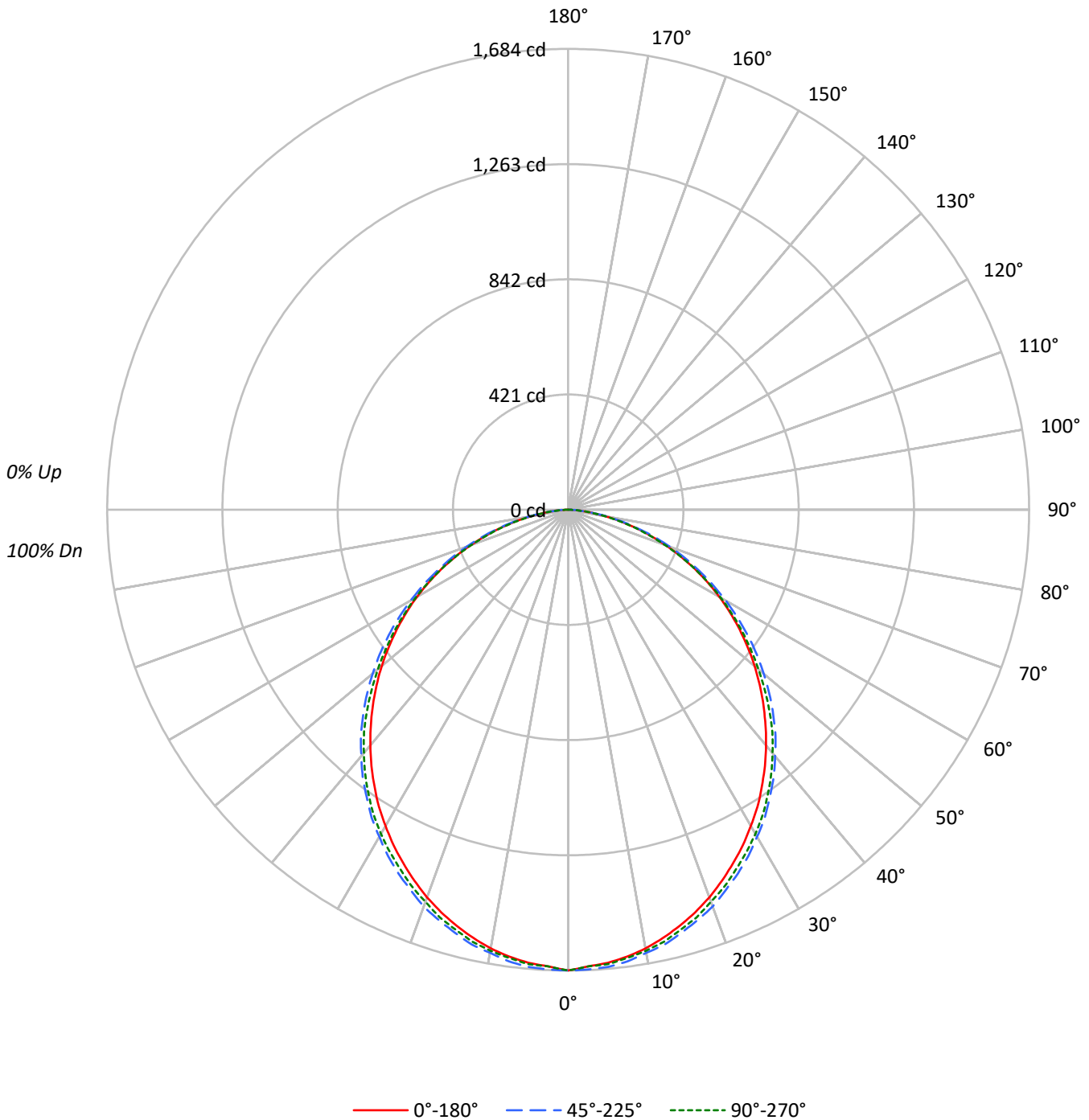
Lumens per Lamp: N/A  
Luminaire Lumens: 4426.7 lumens  
Efficiency: N/A  
Efficacy: 66.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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

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

	0°	45°	90°
0°	4531	4531	4531
5°	4489	4531	4503
10°	4448	4493	4471
15°	4386	4457	4426
20°	4317	4420	4367
25°	4233	4356	4306
30°	4148	4288	4249
35°	4054	4215	4176
40°	3949	4131	4078
45°	3838	4032	3956
50°	3723	3903	3800
55°	3588	3756	3640
60°	3435	3577	3467
65°	3237	3361	3239
70°	2979	3098	2946
75°	2623	2742	2583
80°	2131	2224	2108
85°	1485	1581	1544



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.6	3.6
10°-20°	449.4	10.2
20°-30°	670.2	15.1
30°-40°	794.2	17.9
40°-50°	803.6	18.2
50°-60°	701.8	15.9
60°-70°	512.9	11.6
70°-80°	272.9	6.2
80°-90°	63.1	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°	1278.2	28.9
0°-40°	2072.4	46.8
0°-60°	3577.8	80.8
0°-90°	4426.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4426.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1684	1684	1684	1684	1684	
5°	1662	1665	1677	1681	1667	158
15°	1574	1585	1600	1610	1589	444
25°	1426	1443	1467	1472	1450	657
35°	1234	1253	1283	1292	1271	772
45°	1008	1026	1059	1060	1039	778
55°	765	780	800	789	776	684
65°	508	519	528	517	509	503
75°	252	258	264	254	248	268
85°	48	49	51	52	50	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1683.8	1683.8	1683.8	1683.8	1683.8
2.5°	1670.6	1676.0	1681.7	1684.1	1670.4
5°	1661.8	1665.0	1677.4	1681.3	1667.1
7.5°	1647.4	1652.2	1664.3	1666.0	1652.4
10°	1627.8	1636.2	1644.3	1653.1	1636.4
12.5°	1602.7	1614.1	1627.8	1629.4	1616.7
15°	1574.5	1585.0	1599.9	1609.6	1588.7
17.5°	1542.9	1553.1	1572.4	1574.1	1561.5
20°	1507.6	1520.3	1543.4	1547.5	1524.8
22.5°	1467.6	1484.6	1503.9	1507.8	1491.1
25°	1425.7	1443.2	1467.1	1472.5	1450.3
27.5°	1381.8	1398.7	1425.5	1429.4	1410.6
30°	1334.8	1350.6	1380.1	1386.6	1367.5
32.5°	1287.1	1302.9	1335.5	1341.0	1322.4
35°	1234.1	1253.4	1283.1	1292.0	1271.2
37.5°	1180.1	1198.9	1232.6	1240.6	1218.2
40°	1124.1	1142.7	1175.9	1182.6	1161.0
42.5°	1067.0	1085.5	1121.0	1122.0	1104.1
45°	1008.5	1026.4	1059.4	1060.3	1039.4
47.5°	949.2	967.3	996.8	993.4	973.8
50°	889.2	906.4	932.2	925.6	907.8
52.5°	827.1	843.8	868.2	857.3	840.7
55°	764.7	780.1	800.5	788.9	775.9
57.5°	701.7	717.3	732.9	721.2	710.0
60°	638.2	651.9	664.7	652.8	644.2
62.5°	573.6	585.4	596.5	585.1	577.0
65°	508.4	518.7	527.9	517.3	508.7
67.5°	443.5	452.3	460.7	449.8	440.9
70°	378.6	386.1	393.8	382.6	374.4
72.5°	314.5	321.2	328.1	317.2	310.0
75°	252.3	258.1	263.7	254.0	248.4
77.5°	192.8	197.7	201.6	195.4	190.0
80°	137.5	141.2	143.5	141.0	136.0
82.5°	88.4	91.0	92.3	92.1	88.8
85°	48.1	48.9	51.2	51.8	50.0
87.5°	18.6	19.8	20.3	21.9	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)