

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: P489424

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1STD-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: P489424  
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-24-4-INS-A12125-LD4-1STD-35-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

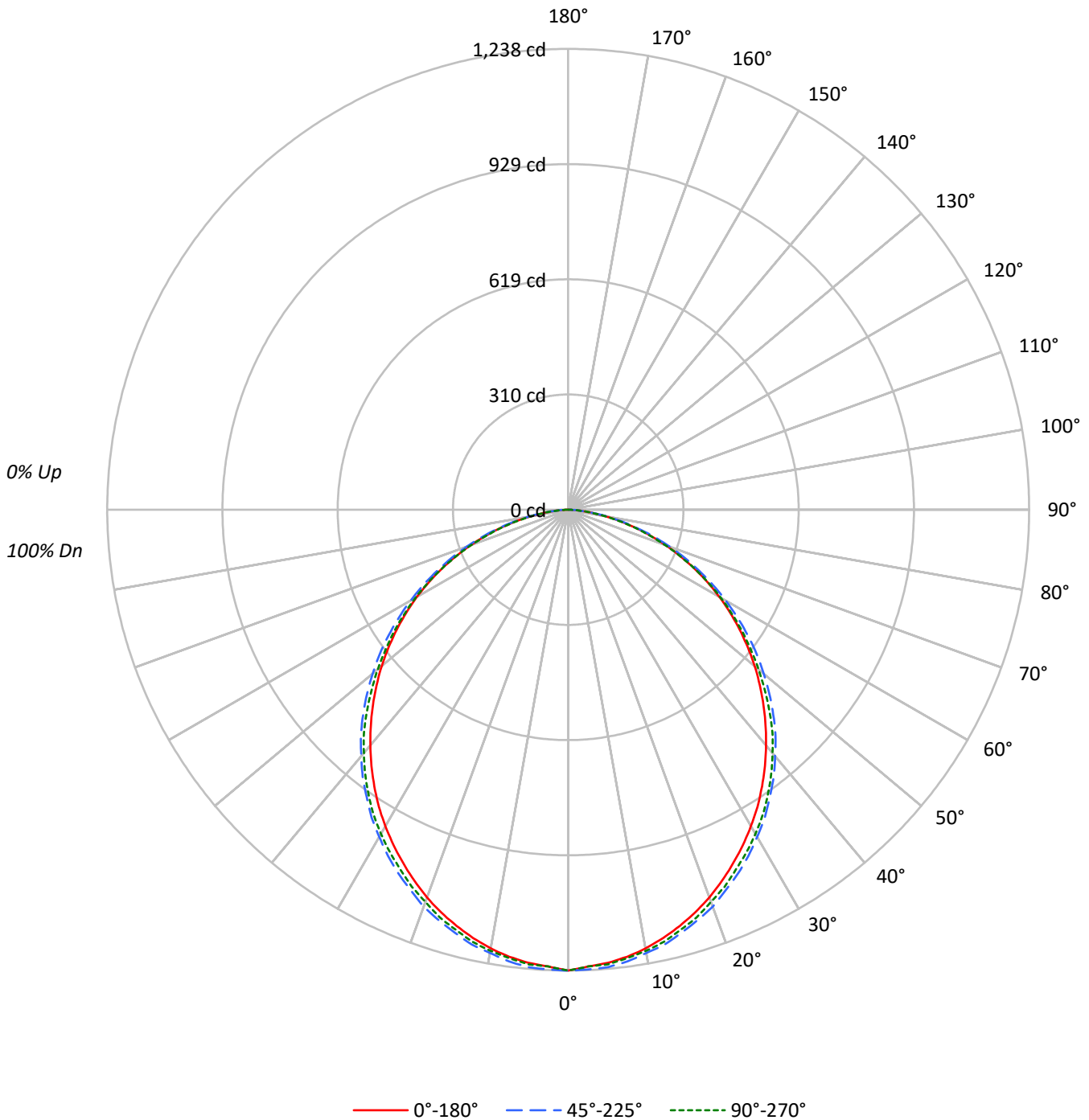
Lumens per Lamp: N/A  
Luminaire Lumens: 3255.0 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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°	1666	1666	1666
5°	1650	1666	1656
10°	1635	1652	1644
15°	1613	1639	1627
20°	1587	1625	1605
25°	1556	1602	1583
30°	1525	1577	1562
35°	1491	1550	1535
40°	1452	1519	1499
45°	1411	1482	1454
50°	1369	1435	1397
55°	1319	1381	1338
60°	1263	1315	1275
65°	1190	1236	1191
70°	1095	1139	1083
75°	964	1008	950
80°	783	817	775
85°	545	582	568



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.6	3.6
10°-20°	330.4	10.2
20°-30°	492.8	15.1
30°-40°	584.0	17.9
40°-50°	590.9	18.2
50°-60°	516.1	15.9
60°-70°	377.1	11.6
70°-80°	200.7	6.2
80°-90°	46.4	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°	939.9	28.9
0°-40°	1523.8	46.8
0°-60°	2630.8	80.8
0°-90°	3255.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3255.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1238	1238	1238	1238	1238	
5°	1222	1224	1233	1236	1226	116
15°	1158	1166	1176	1184	1168	326
25°	1048	1061	1079	1083	1066	483
35°	908	922	944	950	935	567
45°	742	755	779	780	764	572
55°	562	574	589	580	570	503
65°	374	381	388	380	374	370
75°	186	190	194	187	183	197
85°	35	36	38	38	37	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1238.1	1238.1	1238.1	1238.1	1238.1
2.5°	1228.4	1232.4	1236.5	1238.3	1228.3
5°	1222.0	1224.3	1233.4	1236.3	1225.8
7.5°	1211.4	1214.9	1223.8	1225.1	1215.0
10°	1196.9	1203.1	1209.1	1215.5	1203.3
12.5°	1178.5	1186.9	1196.9	1198.1	1188.8
15°	1157.7	1165.5	1176.4	1183.5	1168.2
17.5°	1134.5	1142.0	1156.2	1157.5	1148.2
20°	1108.6	1117.9	1134.9	1137.9	1121.2
22.5°	1079.2	1091.7	1105.9	1108.7	1096.5
25°	1048.3	1061.2	1078.8	1082.8	1066.4
27.5°	1016.1	1028.5	1048.2	1051.0	1037.2
30°	981.5	993.1	1014.8	1019.6	1005.5
32.5°	946.4	958.0	982.0	986.0	972.4
35°	907.5	921.7	943.5	950.0	934.7
37.5°	867.7	881.5	906.3	912.2	895.7
40°	826.6	840.3	864.6	869.5	853.7
42.5°	784.5	798.2	824.3	825.0	811.9
45°	741.6	754.7	779.0	779.6	764.3
47.5°	698.0	711.3	732.9	730.5	716.0
50°	653.9	666.5	685.5	680.6	667.5
52.5°	608.2	620.5	638.4	630.4	618.1
55°	562.3	573.6	588.6	580.1	570.5
57.5°	516.0	527.5	538.9	530.3	522.0
60°	469.3	479.3	488.8	480.0	473.7
62.5°	421.8	430.5	438.6	430.2	424.3
65°	373.8	381.4	388.1	380.4	374.1
67.5°	326.1	332.5	338.7	330.7	324.2
70°	278.4	283.9	289.6	281.3	275.3
72.5°	231.3	236.2	241.2	233.2	227.9
75°	185.5	189.8	193.9	186.8	182.7
77.5°	141.8	145.4	148.2	143.7	139.7
80°	101.1	103.8	105.5	103.7	100.0
82.5°	65.0	66.9	67.9	67.7	65.3
85°	35.3	36.0	37.7	38.1	36.8
87.5°	13.7	14.6	15.0	16.1	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)