

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: P489444

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2LO-27-120-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: P489444  
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-LD4-2LO-27-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

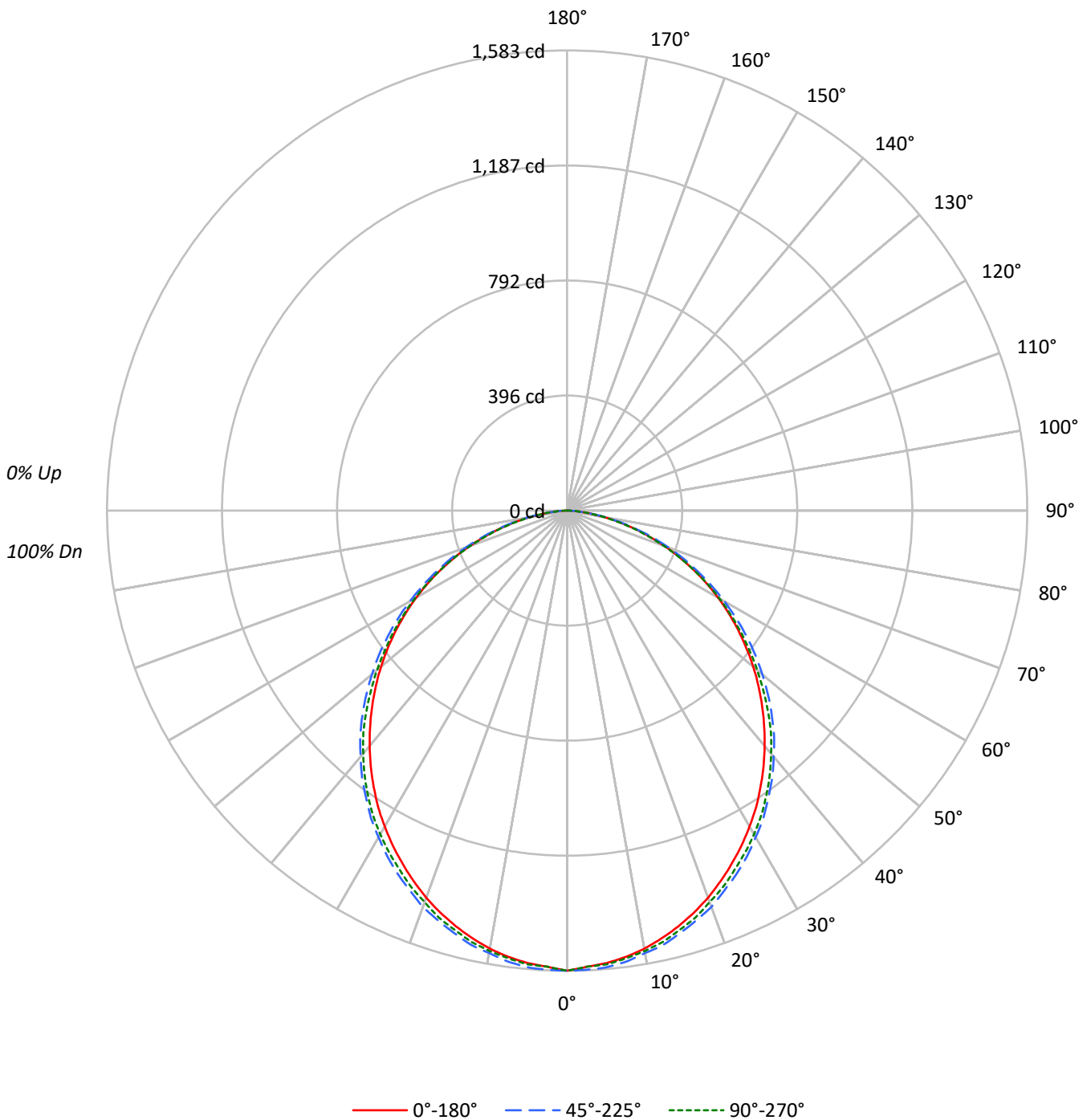
Lumens per Lamp: N/A  
Luminaire Lumens: 4161.7 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	2130	2130	2130
5°	2110	2130	2117
10°	2091	2112	2102
15°	2062	2095	2081
20°	2029	2078	2053
25°	1990	2048	2024
30°	1950	2016	1997
35°	1906	1981	1963
40°	1856	1942	1917
45°	1804	1895	1859
50°	1750	1834	1787
55°	1686	1765	1711
60°	1615	1682	1630
65°	1522	1580	1523
70°	1400	1457	1385
75°	1233	1289	1214
80°	1002	1045	990
85°	698	744	726



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.1	3.6
10°-20°	422.5	10.2
20°-30°	630.1	15.1
30°-40°	746.7	17.9
40°-50°	755.5	18.2
50°-60°	659.8	15.9
60°-70°	482.2	11.6
70°-80°	256.6	6.2
80°-90°	59.3	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°	1201.7	28.9
0°-40°	1948.3	46.8
0°-60°	3363.7	80.8
0°-90°	4161.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4161.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1583	1583	1583	1583	1583	
5°	1562	1565	1577	1581	1567	148
15°	1480	1490	1504	1513	1494	417
25°	1340	1357	1379	1384	1363	618
35°	1160	1178	1206	1215	1195	726
45°	948	965	996	997	977	731
55°	719	733	753	742	730	643
65°	478	488	496	486	478	473
75°	237	243	248	239	234	252
85°	45	46	48	49	47	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1583.0	1583.0	1583.0	1583.0	1583.0
2.5°	1570.6	1575.7	1581.0	1583.3	1570.4
5°	1562.3	1565.3	1577.0	1580.7	1567.3
7.5°	1548.8	1553.3	1564.7	1566.3	1553.4
10°	1530.4	1538.3	1545.9	1554.1	1538.4
12.5°	1506.8	1517.5	1530.4	1531.8	1520.0
15°	1480.2	1490.1	1504.1	1513.2	1493.6
17.5°	1450.5	1460.1	1478.2	1479.9	1468.0
20°	1417.4	1429.3	1451.0	1454.8	1433.5
22.5°	1379.8	1395.8	1413.9	1417.5	1401.9
25°	1340.4	1356.8	1379.3	1384.4	1363.4
27.5°	1299.1	1315.0	1340.2	1343.8	1326.2
30°	1254.9	1269.8	1297.5	1303.6	1285.6
32.5°	1210.1	1224.9	1255.6	1260.7	1243.2
35°	1160.3	1178.4	1206.3	1214.7	1195.1
37.5°	1109.5	1127.1	1158.8	1166.4	1145.2
40°	1056.8	1074.3	1105.5	1111.8	1091.5
42.5°	1003.1	1020.6	1053.9	1054.9	1038.0
45°	948.2	965.0	996.0	996.8	977.2
47.5°	892.4	909.4	937.1	934.0	915.5
50°	836.0	852.2	876.4	870.2	853.5
52.5°	777.6	793.3	816.2	806.0	790.3
55°	718.9	733.4	752.6	741.7	729.5
57.5°	659.7	674.4	689.1	678.0	667.5
60°	600.0	612.9	624.9	613.7	605.6
62.5°	539.3	550.4	560.7	550.0	542.4
65°	478.0	487.7	496.3	486.4	478.3
67.5°	416.9	425.2	433.1	422.9	414.5
70°	355.9	363.0	370.3	359.7	352.0
72.5°	295.7	302.0	308.4	298.2	291.4
75°	237.2	242.6	247.9	238.8	233.5
77.5°	181.3	185.9	189.5	183.7	178.6
80°	129.3	132.8	134.9	132.6	127.8
82.5°	83.1	85.6	86.8	86.6	83.5
85°	45.2	46.0	48.2	48.7	47.0
87.5°	17.5	18.6	19.1	20.6	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)