

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: P488977

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4LO-27-120-EDD**

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: P488977  
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-27-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

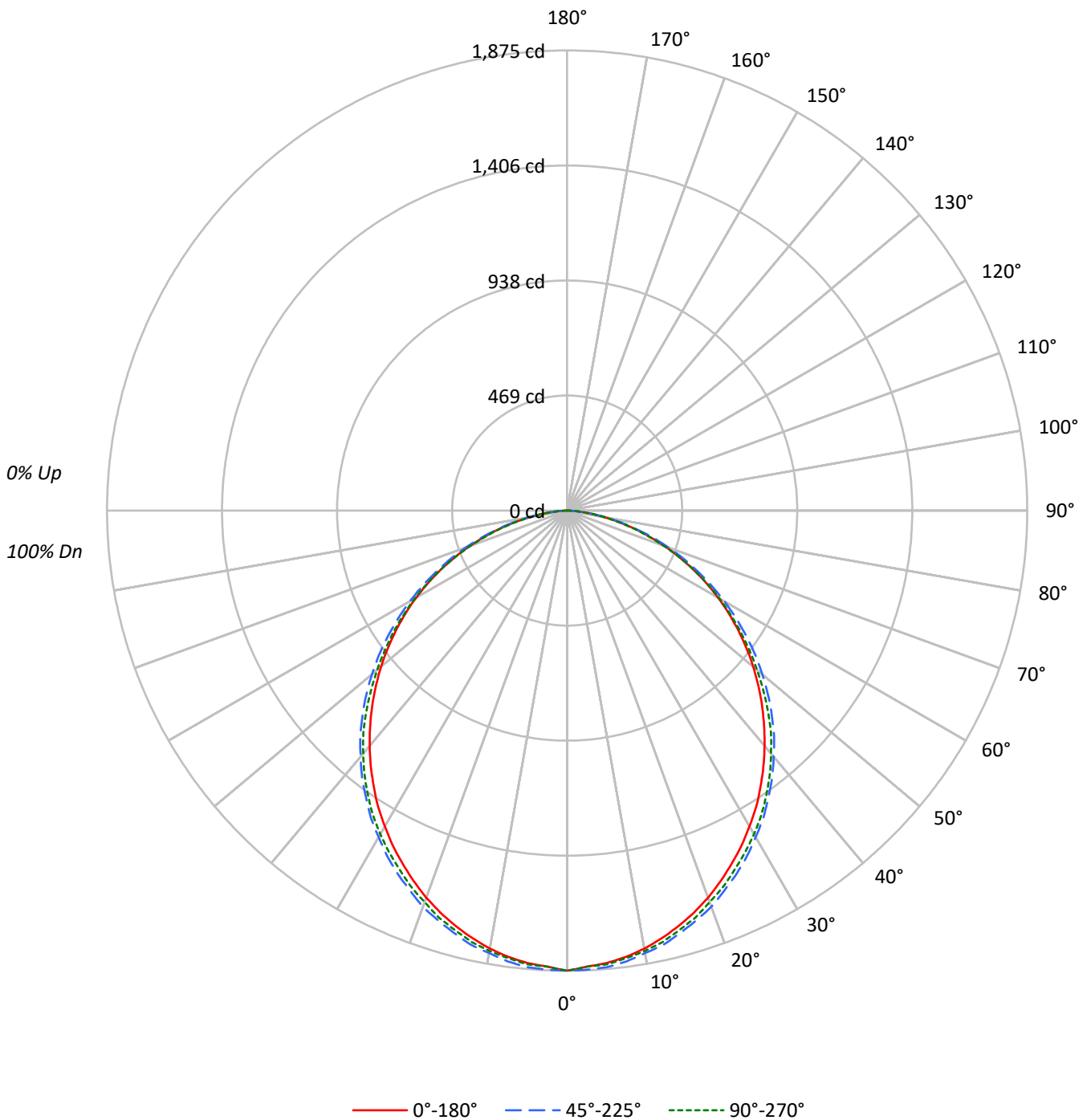
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4928.5 lumens  
Efficiency: N/A  
Efficacy: 105.3 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°	5045	5045	5045
5°	4998	5045	5014
10°	4952	5002	4978
15°	4883	4963	4928
20°	4807	4921	4862
25°	4713	4850	4794
30°	4618	4774	4731
35°	4514	4693	4649
40°	4397	4599	4541
45°	4273	4489	4404
50°	4145	4345	4232
55°	3994	4181	4053
60°	3824	3983	3860
65°	3604	3742	3606
70°	3316	3450	3279
75°	2921	3053	2876
80°	2373	2476	2346
85°	1652	1760	1720



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.6	3.6
10°-20°	500.3	10.2
20°-30°	746.2	15.1
30°-40°	884.2	17.9
40°-50°	894.7	18.2
50°-60°	781.4	15.9
60°-70°	571.0	11.6
70°-80°	303.8	6.2
80°-90°	70.2	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°	1423.1	28.9
0°-40°	2307.3	46.8
0°-60°	3983.4	80.8
0°-90°	4928.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4928.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1875	1875	1875	1875	1875	
5°	1850	1854	1868	1872	1856	175
15°	1753	1765	1781	1792	1769	494
25°	1587	1607	1633	1640	1615	731
35°	1374	1396	1428	1438	1415	859
45°	1123	1143	1180	1180	1157	866
55°	851	869	891	878	864	761
65°	566	578	588	576	566	560
75°	281	287	294	283	277	299
85°	54	54	57	58	56	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1874.6	1874.6	1874.6	1874.6	1874.6
2.5°	1860.0	1866.0	1872.3	1875.0	1859.8
5°	1850.2	1853.7	1867.6	1871.9	1856.1
7.5°	1834.2	1839.5	1852.9	1854.9	1839.7
10°	1812.3	1821.7	1830.7	1840.4	1821.9
12.5°	1784.4	1797.1	1812.3	1814.1	1800.0
15°	1752.9	1764.7	1781.3	1792.0	1768.8
17.5°	1717.8	1729.1	1750.6	1752.6	1738.5
20°	1678.5	1692.6	1718.4	1722.9	1697.7
22.5°	1634.0	1652.9	1674.4	1678.7	1660.2
25°	1587.3	1606.9	1633.4	1639.5	1614.7
27.5°	1538.5	1557.2	1587.1	1591.4	1570.5
30°	1486.1	1503.7	1536.5	1543.8	1522.5
32.5°	1433.0	1450.6	1486.9	1493.0	1472.3
35°	1374.0	1395.5	1428.5	1438.5	1415.2
37.5°	1313.9	1334.8	1372.3	1381.3	1356.3
40°	1251.6	1272.3	1309.2	1316.6	1292.6
42.5°	1187.9	1208.6	1248.1	1249.2	1229.3
45°	1122.9	1142.8	1179.5	1180.5	1157.2
47.5°	1056.8	1077.0	1109.8	1106.1	1084.2
50°	990.0	1009.2	1037.9	1030.5	1010.8
52.5°	920.9	939.5	966.6	954.5	935.9
55°	851.4	868.6	891.2	878.3	863.9
57.5°	781.3	798.6	816.0	802.9	790.4
60°	710.6	725.8	740.0	726.8	717.2
62.5°	638.7	651.8	664.1	651.4	642.4
65°	566.0	577.5	587.7	576.0	566.4
67.5°	493.8	503.5	512.9	500.8	490.8
70°	421.5	429.9	438.5	426.0	416.8
72.5°	350.2	357.6	365.2	353.1	345.1
75°	280.9	287.3	293.6	282.8	276.6
77.5°	214.7	220.1	224.4	217.6	211.5
80°	153.1	157.2	159.8	157.0	151.4
82.5°	98.4	101.4	102.7	102.5	98.8
85°	53.5	54.5	57.0	57.6	55.7
87.5°	20.7	22.1	22.7	24.4	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)