

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: P488988

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4STD-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: P488988  
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-27-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

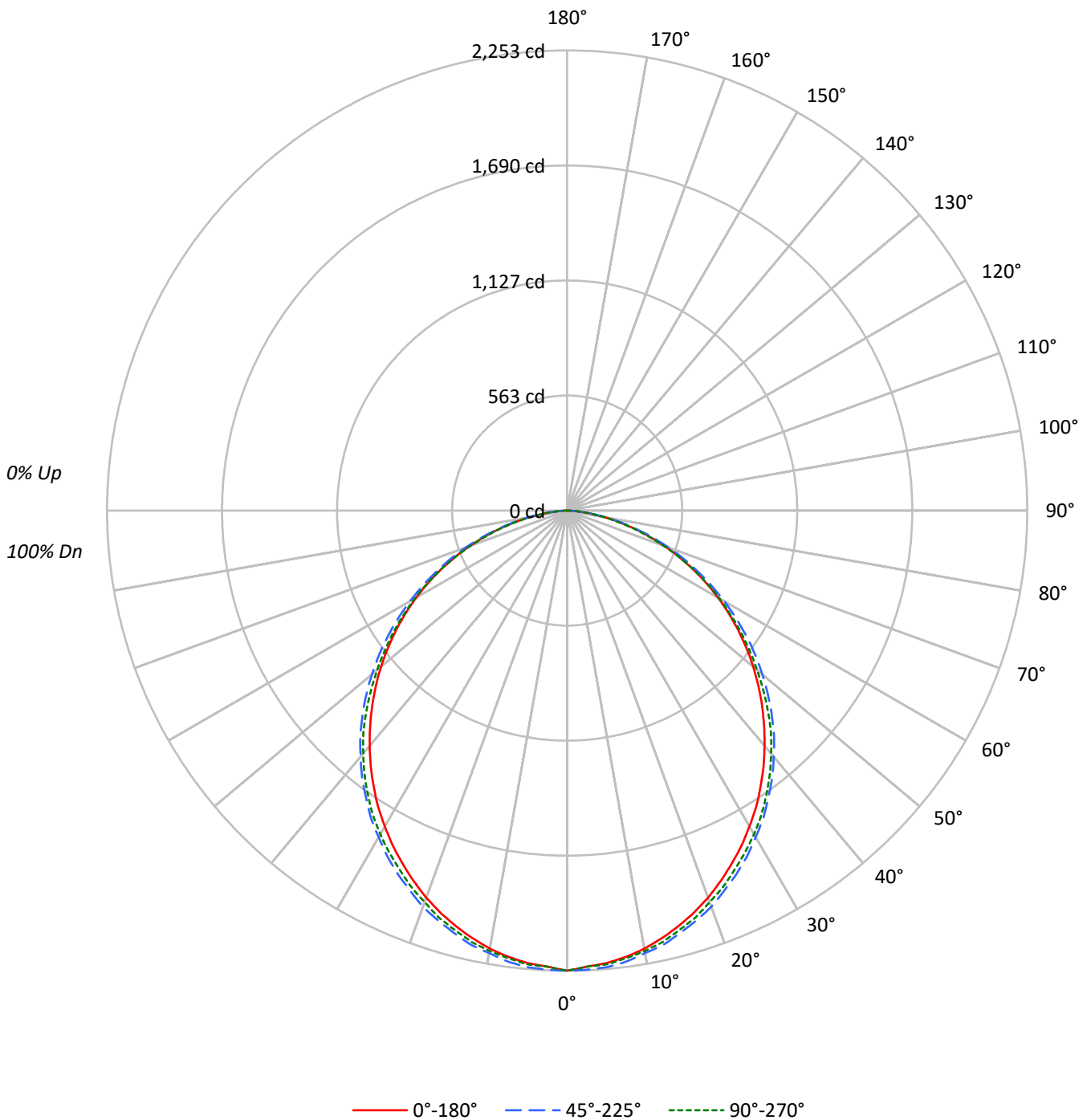
Lumens per Lamp: N/A  
Luminaire Lumens: 5922.2 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°	6062	6062	6062
5°	6006	6062	6025
10°	5951	6011	5982
15°	5868	5963	5921
20°	5776	5913	5842
25°	5663	5828	5761
30°	5549	5737	5684
35°	5424	5639	5587
40°	5283	5526	5456
45°	5135	5394	5292
50°	4981	5221	5084
55°	4799	5024	4870
60°	4595	4786	4638
65°	4330	4497	4334
70°	3985	4146	3940
75°	3509	3667	3455
80°	2851	2975	2819
85°	1985	2115	2066



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.1	3.6
10°-20°	601.2	10.2
20°-30°	896.6	15.1
30°-40°	1062.5	17.9
40°-50°	1075.1	18.2
50°-60°	939.0	15.9
60°-70°	686.2	11.6
70°-80°	365.1	6.2
80°-90°	84.4	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°	1710.0	28.9
0°-40°	2772.5	46.8
0°-60°	4786.6	80.8
0°-90°	5922.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5922.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2253	2253	2253	2253	2253	
5°	2223	2228	2244	2249	2230	211
15°	2106	2120	2140	2153	2125	594
25°	1907	1931	1963	1970	1940	879
35°	1651	1677	1717	1728	1701	1033
45°	1349	1373	1417	1418	1391	1041
55°	1023	1044	1071	1055	1038	915
65°	680	694	706	692	681	673
75°	338	345	353	340	332	359
85°	64	66	68	69	67	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2252.6	2252.6	2252.6	2252.6	2252.6
2.5°	2235.0	2242.3	2249.8	2253.1	2234.8
5°	2223.3	2227.5	2244.1	2249.3	2230.3
7.5°	2204.0	2210.3	2226.5	2228.9	2210.6
10°	2177.7	2189.0	2199.8	2211.5	2189.2
12.5°	2144.2	2159.4	2177.7	2179.8	2162.9
15°	2106.4	2120.5	2140.4	2153.3	2125.4
17.5°	2064.1	2077.7	2103.6	2105.9	2089.0
20°	2017.0	2033.9	2064.8	2070.2	2040.0
22.5°	1963.5	1986.2	2012.0	2017.2	1994.9
25°	1907.4	1930.8	1962.7	1970.0	1940.2
27.5°	1848.7	1871.2	1907.1	1912.3	1887.2
30°	1785.8	1806.9	1846.3	1855.0	1829.4
32.5°	1722.0	1743.1	1786.7	1794.0	1769.1
35°	1651.1	1676.9	1716.6	1728.5	1700.6
37.5°	1578.8	1603.9	1649.0	1659.8	1629.7
40°	1503.9	1528.8	1573.2	1582.1	1553.2
42.5°	1427.4	1452.3	1499.7	1501.1	1477.2
45°	1349.3	1373.2	1417.3	1418.5	1390.6
47.5°	1269.9	1294.1	1333.5	1329.1	1302.8
50°	1189.7	1212.7	1247.2	1238.2	1214.5
52.5°	1106.6	1128.9	1161.5	1147.0	1124.7
55°	1023.0	1043.7	1070.9	1055.4	1038.1
57.5°	938.8	959.7	980.6	964.8	949.8
60°	853.8	872.1	889.3	873.3	861.8
62.5°	767.4	783.2	798.0	782.7	771.9
65°	680.1	694.0	706.2	692.1	680.6
67.5°	593.3	605.0	616.3	601.8	589.8
70°	506.5	516.6	526.9	511.9	500.8
72.5°	420.8	429.7	438.9	424.3	414.7
75°	337.5	345.2	352.7	339.8	332.3
77.5°	257.9	264.5	269.7	261.4	254.2
80°	184.0	188.9	192.0	188.7	181.9
82.5°	118.3	121.8	123.4	123.2	118.8
85°	64.3	65.5	68.5	69.2	66.9
87.5°	24.9	26.5	27.2	29.3	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)