

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: P489490

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3STD-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: P489490  
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-LD4-3STD-20-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

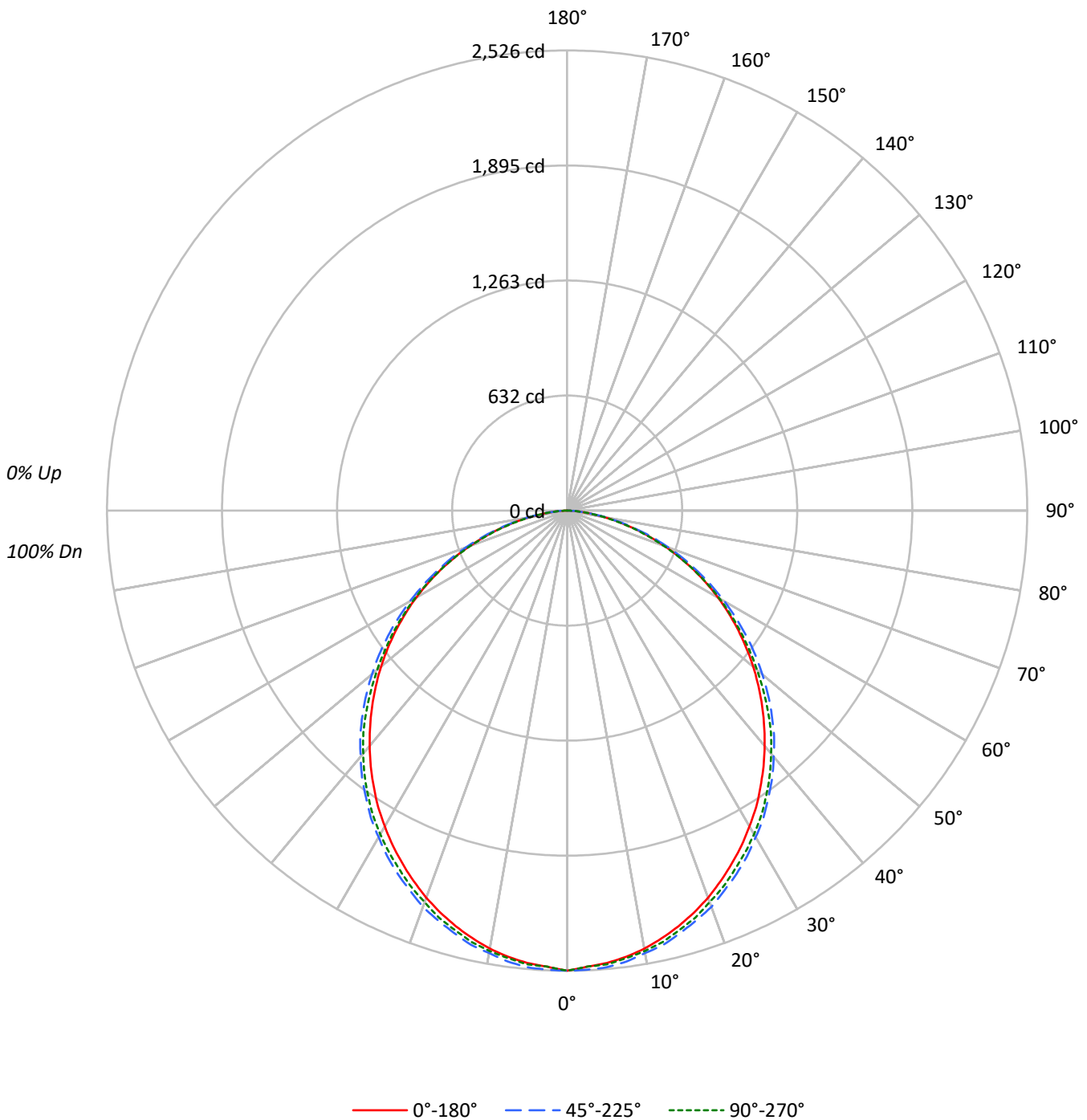
Lumens per Lamp: N/A  
Luminaire Lumens: 6640.3 lumens  
Efficiency: N/A  
Efficacy: 66.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 99.9  
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°	3398	3398	3398
5°	3367	3399	3378
10°	3336	3370	3354
15°	3290	3343	3320
20°	3238	3315	3275
25°	3175	3267	3230
30°	3111	3216	3187
35°	3041	3161	3132
40°	2962	3098	3059
45°	2879	3024	2967
50°	2792	2927	2851
55°	2691	2817	2730
60°	2576	2683	2600
65°	2428	2521	2429
70°	2234	2324	2209
75°	1967	2056	1937
80°	1598	1668	1580
85°	1113	1186	1158



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.9	3.6
10°-20°	674.1	10.2
20°-30°	1005.4	15.1
30°-40°	1191.4	17.9
40°-50°	1205.5	18.2
50°-60°	1052.8	15.9
60°-70°	769.3	11.6
70°-80°	409.4	6.2
80°-90°	94.6	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°	1917.3	28.9
0°-40°	3108.7	46.8
0°-60°	5367.0	80.8
0°-90°	6640.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6640.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2526	2526	2526	2526	2526	
5°	2493	2498	2516	2522	2501	236
15°	2362	2378	2400	2414	2383	666
25°	2139	2165	2201	2209	2176	985
35°	1851	1880	1925	1938	1907	1158
45°	1513	1540	1589	1590	1559	1167
55°	1147	1170	1201	1183	1164	1025
65°	763	778	792	776	763	755
75°	378	387	396	381	373	402
85°	72	73	77	78	75	91
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2525.7	2525.7	2525.7	2525.7	2525.7
2.5°	2506.0	2514.2	2522.6	2526.3	2505.7
5°	2492.8	2497.6	2516.3	2522.0	2500.7
7.5°	2471.3	2478.4	2496.5	2499.2	2478.6
10°	2441.8	2454.4	2466.5	2479.7	2454.7
12.5°	2404.2	2421.3	2441.8	2444.2	2425.2
15°	2361.8	2377.6	2399.9	2414.4	2383.1
17.5°	2314.4	2329.7	2358.6	2361.3	2342.3
20°	2261.5	2280.5	2315.2	2321.3	2287.3
22.5°	2201.5	2227.1	2256.0	2261.8	2236.8
25°	2138.6	2165.0	2200.7	2208.9	2175.5
27.5°	2072.8	2098.1	2138.4	2144.2	2116.0
30°	2002.3	2026.0	2070.2	2080.0	2051.3
32.5°	1930.7	1954.4	2003.4	2011.5	1983.6
35°	1851.3	1880.2	1924.7	1938.1	1906.8
37.5°	1770.2	1798.4	1848.9	1861.0	1827.3
40°	1686.3	1714.2	1763.9	1773.9	1741.5
42.5°	1600.5	1628.4	1681.5	1683.1	1656.3
45°	1512.9	1539.7	1589.2	1590.5	1559.2
47.5°	1423.9	1451.0	1495.2	1490.2	1460.8
50°	1333.9	1359.7	1398.4	1388.4	1361.8
52.5°	1240.8	1265.8	1302.3	1286.0	1261.0
55°	1147.1	1170.2	1200.8	1183.4	1163.9
57.5°	1052.6	1076.0	1099.4	1081.8	1065.0
60°	957.3	977.9	997.1	979.2	966.3
62.5°	860.5	878.1	894.7	877.6	865.5
65°	762.6	778.1	791.8	776.0	763.1
67.5°	665.2	678.4	691.0	674.7	661.3
70°	567.9	579.2	590.8	573.9	561.6
72.5°	471.8	481.8	492.1	475.8	465.0
75°	378.4	387.1	395.5	381.0	372.6
77.5°	289.2	296.6	302.4	293.2	285.0
80°	206.3	211.8	215.3	211.6	203.9
82.5°	132.6	136.6	138.4	138.2	133.2
85°	72.1	73.4	76.8	77.6	75.0
87.5°	27.9	29.7	30.5	32.9	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)