

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: P488990

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4STD-30-120-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: P488990
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-30-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

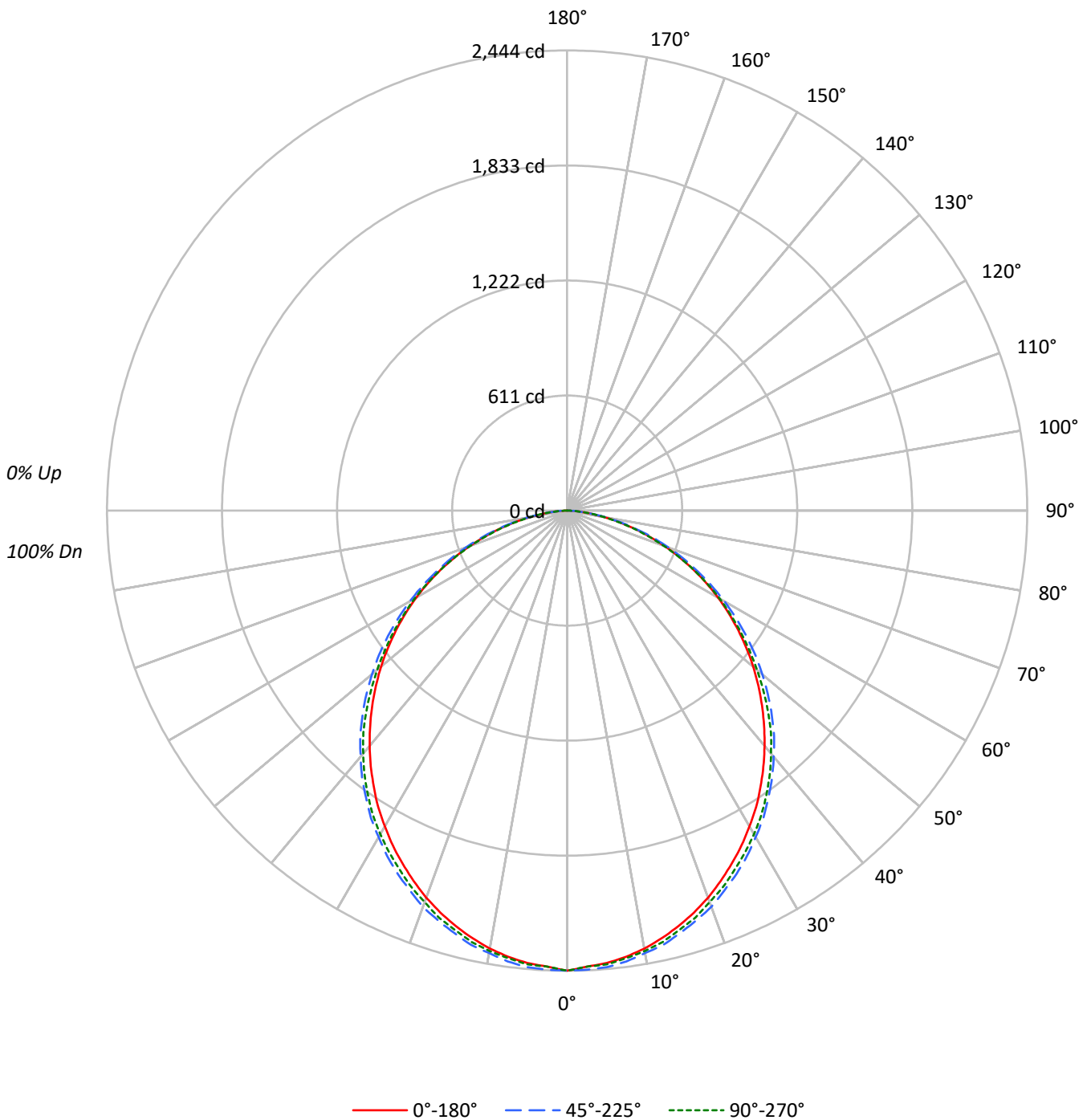
Lumens per Lamp: N/A
Luminaire Lumens: 6424.0 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	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°	6575	6575	6575
5°	6514	6576	6535
10°	6455	6520	6489
15°	6366	6468	6423
20°	6265	6414	6337
25°	6143	6322	6249
30°	6019	6223	6166
35°	5884	6117	6060
40°	5731	5995	5918
45°	5570	5851	5740
50°	5403	5663	5516
55°	5206	5450	5283
60°	4985	5191	5031
65°	4698	4877	4701
70°	4323	4497	4275
75°	3806	3978	3748
80°	3093	3226	3058
85°	2155	2294	2242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.1	3.6
10°-20°	652.1	10.2
20°-30°	972.6	15.1
30°-40°	1152.6	17.9
40°-50°	1166.2	18.2
50°-60°	1018.5	15.9
60°-70°	744.3	11.6
70°-80°	396.0	6.2
80°-90°	91.5	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°	1854.9	28.9
0°-40°	3007.4	46.8
0°-60°	5192.1	80.8
0°-90°	6424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6424.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2444	2444	2444	2444	2444	
5°	2412	2416	2434	2440	2419	229
15°	2285	2300	2322	2336	2306	644
25°	2069	2094	2129	2137	2105	953
35°	1791	1819	1862	1875	1845	1120
45°	1464	1490	1537	1539	1508	1129
55°	1110	1132	1162	1145	1126	992
65°	738	753	766	751	738	730
75°	366	374	383	369	360	389
85°	70	71	74	75	73	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2443.5	2443.5	2443.5	2443.5	2443.5
2.5°	2424.4	2432.3	2440.4	2444.0	2424.1
5°	2411.6	2416.2	2434.3	2439.9	2419.3
7.5°	2390.8	2397.6	2415.2	2417.7	2397.9
10°	2362.2	2374.5	2386.2	2398.9	2374.7
12.5°	2325.8	2342.4	2362.2	2364.5	2346.2
15°	2284.9	2300.1	2321.8	2335.8	2305.5
17.5°	2239.0	2253.8	2281.8	2284.3	2266.0
20°	2187.9	2206.2	2239.8	2245.7	2212.8
22.5°	2129.8	2154.5	2182.5	2188.1	2163.9
25°	2069.0	2094.4	2129.1	2136.9	2104.6
27.5°	2005.3	2029.8	2068.7	2074.3	2047.1
30°	1937.1	1960.0	2002.8	2012.2	1984.5
32.5°	1867.9	1890.8	1938.1	1946.0	1919.0
35°	1791.0	1819.0	1862.0	1875.0	1844.7
37.5°	1712.6	1739.8	1788.7	1800.4	1767.8
40°	1631.4	1658.3	1706.5	1716.1	1684.8
42.5°	1548.4	1575.3	1626.8	1628.3	1602.3
45°	1463.6	1489.5	1537.4	1538.7	1508.4
47.5°	1377.5	1403.8	1446.5	1441.7	1413.2
50°	1290.5	1315.4	1352.8	1343.2	1317.5
52.5°	1200.3	1224.5	1259.9	1244.1	1219.9
55°	1109.7	1132.1	1161.6	1144.8	1126.0
57.5°	1018.3	1041.0	1063.6	1046.6	1030.3
60°	926.2	946.0	964.6	947.3	934.8
62.5°	832.5	849.5	865.6	849.0	837.3
65°	737.8	752.8	766.0	750.8	738.3
67.5°	643.6	656.3	668.5	652.7	639.8
70°	549.4	560.3	571.5	555.2	543.3
72.5°	456.5	466.1	476.1	460.3	449.8
75°	366.1	374.5	382.6	368.6	360.5
77.5°	279.8	286.9	292.5	283.6	275.7
80°	199.6	204.9	208.2	204.7	197.3
82.5°	128.3	132.1	133.9	133.7	128.8
85°	69.8	71.0	74.3	75.1	72.6
87.5°	27.0	28.8	29.5	31.8	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)