

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: P489458

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2STD-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: P489458
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-LD4-2STD-30-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

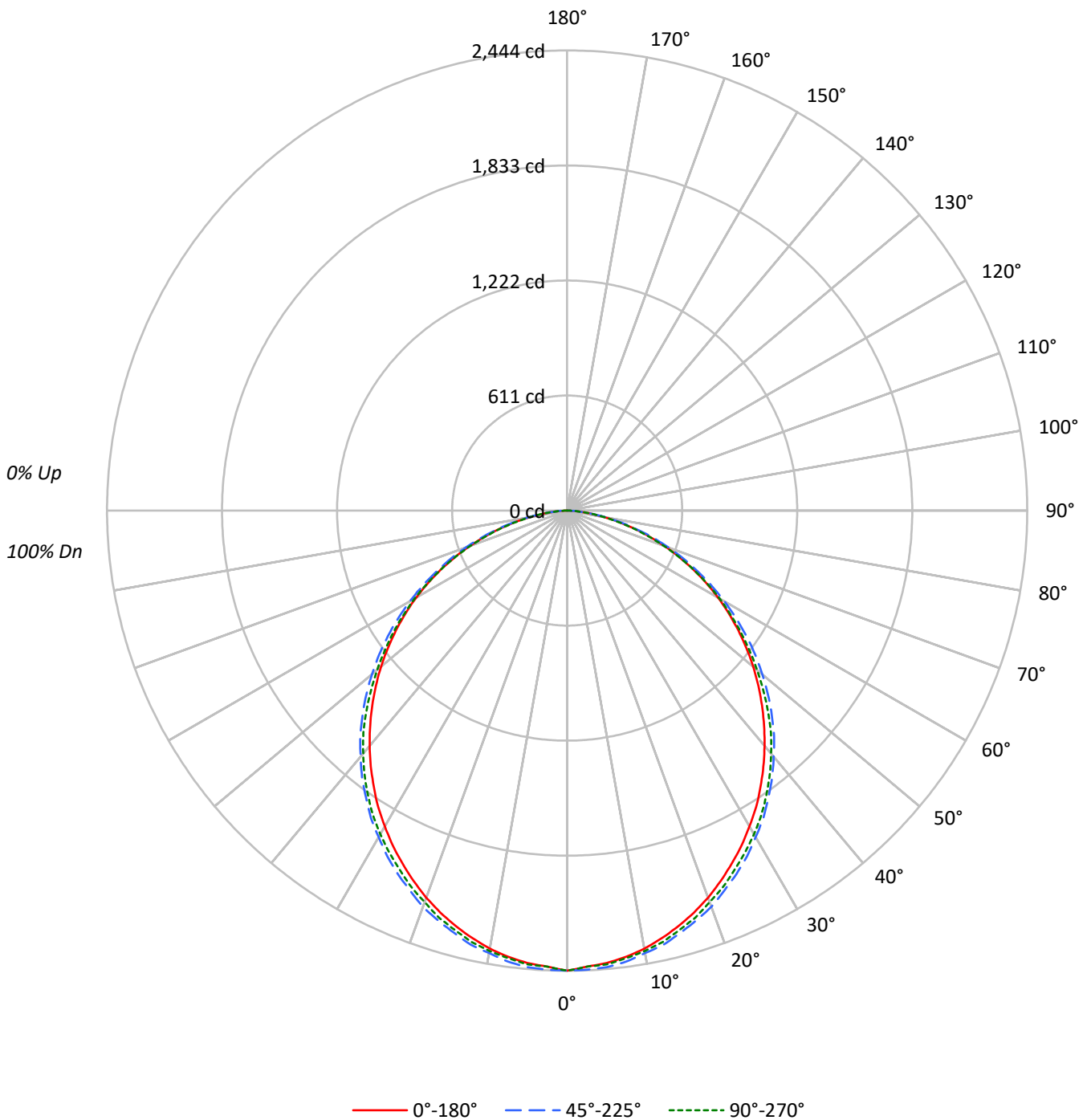
Lumens per Lamp: N/A
Luminaire Lumens: 6424.2 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3288	3288	3288
5°	3257	3288	3268
10°	3227	3260	3245
15°	3183	3234	3212
20°	3133	3207	3169
25°	3072	3161	3125
30°	3010	3112	3083
35°	2942	3059	3030
40°	2865	2997	2959
45°	2785	2926	2870
50°	2701	2832	2758
55°	2603	2725	2641
60°	2492	2596	2516
65°	2349	2439	2351
70°	2161	2249	2137
75°	1903	1989	1874
80°	1547	1614	1529
85°	1078	1147	1121



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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°	1166.3	18.2
50°-60°	1018.6	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°	3007.5	46.8
0°-60°	5192.3	80.8
0°-90°	6424.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6424.2	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	1538	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	2440.5	2444.0	2424.2
5°	2411.7	2416.3	2434.4	2440.0	2419.4
7.5°	2390.8	2397.7	2415.3	2417.8	2398.0
10°	2362.3	2374.5	2386.3	2399.0	2374.8
12.5°	2325.9	2342.5	2362.3	2364.6	2346.3
15°	2284.9	2300.2	2321.8	2335.8	2305.6
17.5°	2239.1	2253.9	2281.9	2284.4	2266.1
20°	2187.9	2206.3	2239.9	2245.7	2212.9
22.5°	2129.9	2154.6	2182.6	2188.2	2164.0
25°	2069.0	2094.5	2129.1	2137.0	2104.7
27.5°	2005.4	2029.8	2068.8	2074.4	2047.1
30°	1937.2	1960.1	2002.8	2012.3	1984.5
32.5°	1867.9	1890.8	1938.2	1946.1	1919.1
35°	1791.0	1819.0	1862.1	1875.0	1844.7
37.5°	1712.6	1739.9	1788.7	1800.4	1767.9
40°	1631.4	1658.4	1706.5	1716.2	1684.9
42.5°	1548.4	1575.4	1626.8	1628.3	1602.4
45°	1463.6	1489.6	1537.5	1538.7	1508.4
47.5°	1377.6	1403.8	1446.6	1441.7	1413.2
50°	1290.5	1315.5	1352.9	1343.2	1317.5
52.5°	1200.4	1224.6	1260.0	1244.2	1220.0
55°	1109.7	1132.2	1161.7	1144.9	1126.0
57.5°	1018.4	1041.0	1063.7	1046.6	1030.3
60°	926.2	946.0	964.6	947.3	934.8
62.5°	832.5	849.6	865.6	849.1	837.3
65°	737.8	752.8	766.1	750.8	738.3
67.5°	643.6	656.3	668.5	652.8	639.8
70°	549.4	560.3	571.6	555.3	543.3
72.5°	456.5	466.2	476.1	460.3	449.9
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	208.3	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)