

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: P489514

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4LO-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: P489514
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-LD4-4LO-20-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

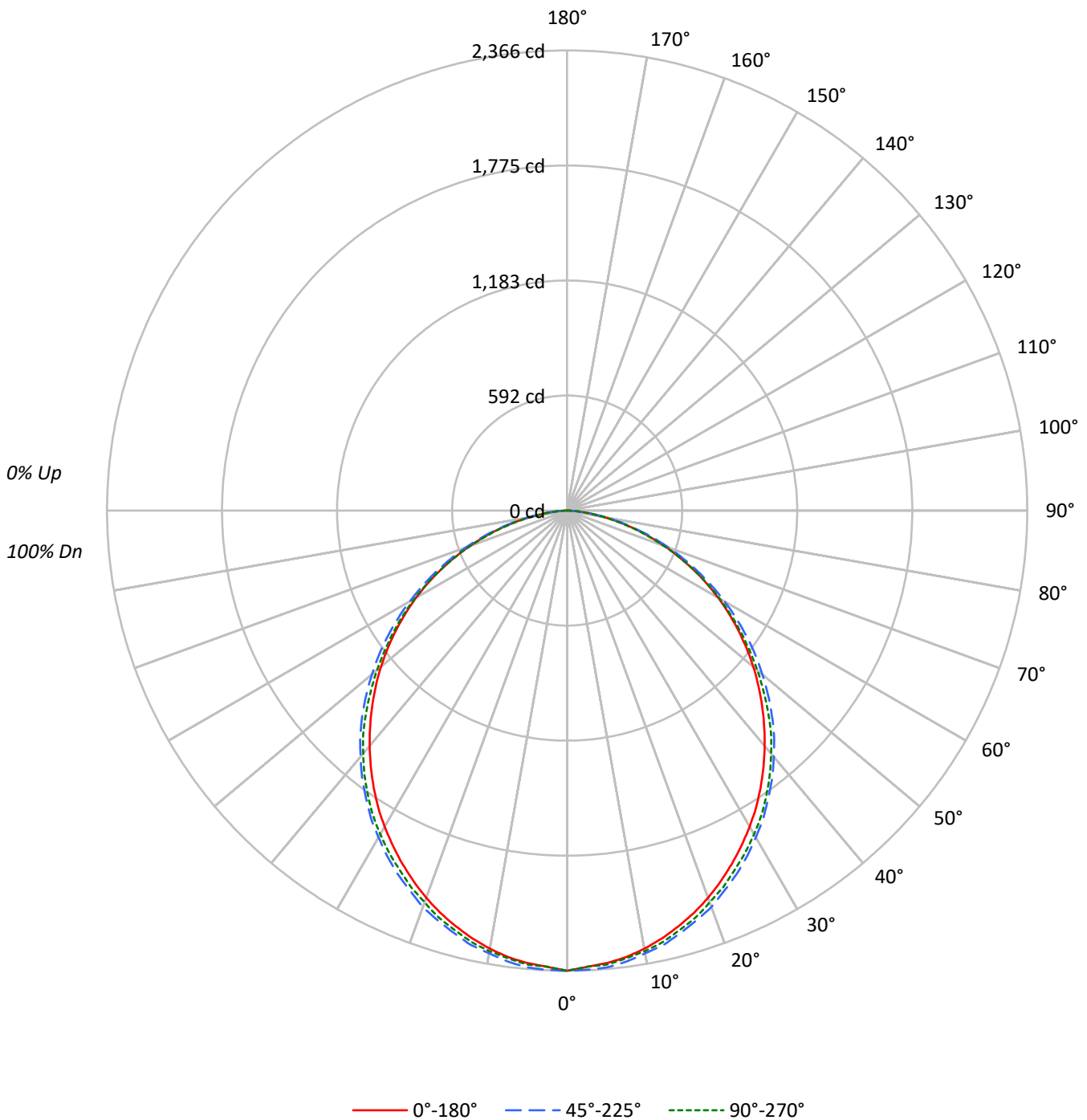
Lumens per Lamp: N/A
Luminaire Lumens: 6221.5 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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°	3184	3184	3184
5°	3155	3184	3165
10°	3126	3157	3142
15°	3082	3132	3110
20°	3034	3106	3069
25°	2975	3061	3026
30°	2915	3014	2986
35°	2849	2962	2934
40°	2775	2903	2866
45°	2697	2833	2780
50°	2616	2743	2671
55°	2521	2639	2558
60°	2414	2514	2436
65°	2275	2362	2276
70°	2093	2177	2070
75°	1843	1927	1815
80°	1498	1563	1481
85°	1044	1112	1085



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.9	3.6
10°-20°	631.6	10.2
20°-30°	942.0	15.1
30°-40°	1116.2	17.9
40°-50°	1129.4	18.2
50°-60°	986.4	15.9
60°-70°	720.8	11.6
70°-80°	383.5	6.2
80°-90°	88.7	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°	1796.4	28.9
0°-40°	2912.6	46.8
0°-60°	5028.5	80.8
0°-90°	6221.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6221.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2366	2366	2366	2366	2366	
5°	2336	2340	2358	2363	2343	221
15°	2213	2228	2249	2262	2233	624
25°	2004	2028	2062	2070	2038	923
35°	1734	1762	1803	1816	1786	1085
45°	1417	1443	1489	1490	1461	1093
55°	1075	1096	1125	1109	1090	961
65°	714	729	742	727	715	707
75°	354	363	371	357	349	377
85°	68	69	72	73	70	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2366.4	2366.4	2366.4	2366.4	2366.4
2.5°	2347.9	2355.6	2363.5	2366.9	2347.7
5°	2335.6	2340.1	2357.6	2363.0	2343.0
7.5°	2315.4	2322.1	2339.1	2341.5	2322.3
10°	2287.8	2299.6	2311.0	2323.3	2299.9
12.5°	2252.5	2268.6	2287.8	2290.0	2272.3
15°	2212.8	2227.6	2248.6	2262.1	2232.8
17.5°	2168.5	2182.8	2209.9	2212.3	2194.6
20°	2118.9	2136.6	2169.2	2174.9	2143.1
22.5°	2062.7	2086.6	2113.7	2119.1	2095.7
25°	2003.8	2028.4	2061.9	2069.6	2038.3
27.5°	1942.1	1965.8	2003.5	2008.9	1982.6
30°	1876.0	1898.2	1939.7	1948.8	1921.9
32.5°	1809.0	1831.2	1877.0	1884.7	1858.5
35°	1734.5	1761.6	1803.3	1815.9	1786.5
37.5°	1658.6	1685.0	1732.3	1743.6	1712.1
40°	1579.9	1606.1	1652.7	1662.0	1631.7
42.5°	1499.5	1525.7	1575.5	1577.0	1551.8
45°	1417.4	1442.6	1488.9	1490.2	1460.8
47.5°	1334.1	1359.5	1400.9	1396.2	1368.6
50°	1249.8	1274.0	1310.2	1300.8	1275.9
52.5°	1162.5	1185.9	1220.2	1204.9	1181.5
55°	1074.7	1096.4	1125.0	1108.8	1090.5
57.5°	986.2	1008.2	1030.1	1013.6	997.8
60°	897.0	916.2	934.2	917.4	905.4
62.5°	806.2	822.8	838.3	822.3	810.9
65°	714.5	729.1	741.9	727.1	715.0
67.5°	623.3	635.6	647.5	632.2	619.6
70°	532.1	542.7	553.5	537.7	526.1
72.5°	442.1	451.4	461.1	445.8	435.7
75°	354.5	362.7	370.6	357.0	349.1
77.5°	271.0	277.9	283.3	274.7	267.0
80°	193.3	198.5	201.7	198.2	191.1
82.5°	124.3	128.0	129.7	129.4	124.8
85°	67.6	68.8	72.0	72.7	70.3
87.5°	26.1	27.9	28.6	30.8	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)