

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: P489850

Luminaire Tested: **CLM-24-4-INS-P12125-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: P489850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)
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-P12125-LD4-3STD-20-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

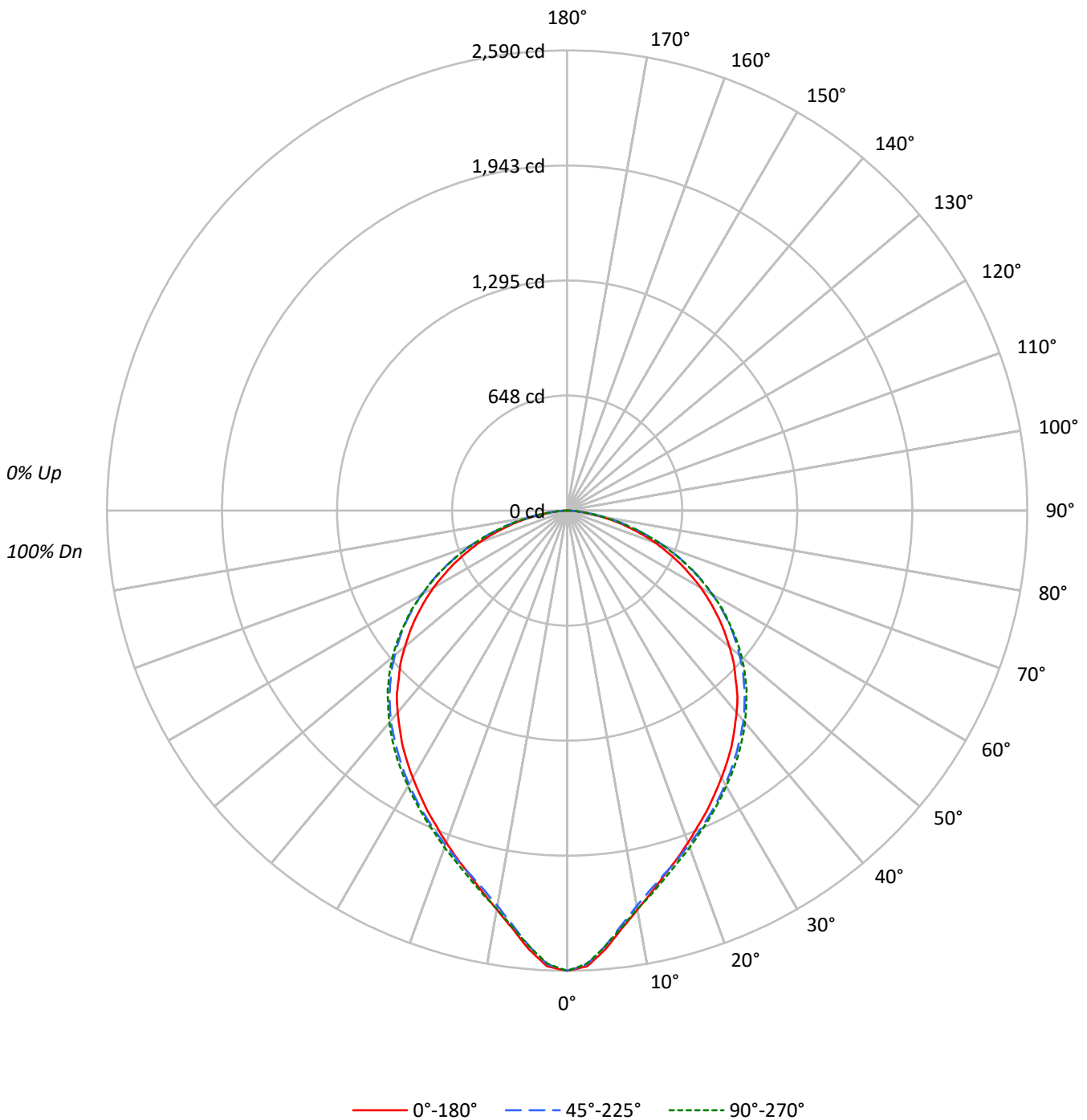
Lumens per Lamp: N/A
Luminaire Lumens: 6016.4 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3485	3485	3485
5°	3346	3323	3323
10°	3114	3086	3110
15°	2955	2950	2979
20°	2847	2867	2889
25°	2765	2810	2827
30°	2699	2765	2782
35°	2652	2730	2758
40°	2605	2711	2734
45°	2552	2685	2717
50°	2496	2651	2686
55°	2426	2613	2624
60°	2339	2541	2536
65°	2217	2444	2427
70°	2070	2279	2251
75°	1827	2019	1998
80°	1485	1645	1564
85°	1030	1048	1010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.9	3.8
10°-20°	599.5	10.0
20°-30°	871.8	14.5
30°-40°	1037.4	17.2
40°-50°	1077.2	17.9
50°-60°	975.9	16.2
60°-70°	736.4	12.2
70°-80°	401.2	6.7
80°-90°	88.2	1.5
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°	1700.2	28.3
0°-40°	2737.6	45.5
0°-60°	4790.6	79.6
0°-90°	6016.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6016.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2590	2590	2590	2590	2590	
5°	2478	2472	2460	2459	2460	230
15°	2122	2116	2118	2132	2138	599
25°	1863	1878	1893	1909	1904	858
35°	1615	1634	1662	1687	1679	1010
45°	1341	1365	1411	1426	1428	1037
55°	1034	1059	1114	1122	1118	923
65°	696	716	768	766	762	688
75°	351	366	388	391	384	374
85°	67	67	68	67	65	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2590.2	2590.2	2590.2	2590.2	2590.2
2.5°	2567.5	2564.9	2556.5	2553.2	2552.6
5°	2477.5	2471.7	2460.0	2458.8	2460.0
7.5°	2370.1	2363.6	2352.0	2356.5	2362.3
10°	2279.5	2263.3	2258.7	2265.2	2276.2
12.5°	2198.6	2185.6	2181.7	2198.6	2206.4
15°	2121.5	2116.4	2117.7	2131.9	2138.4
17.5°	2054.9	2051.7	2060.1	2071.1	2074.3
20°	1988.2	1994.7	2002.5	2014.2	2018.0
22.5°	1922.9	1935.1	1948.1	1963.6	1958.5
25°	1862.7	1878.2	1893.1	1908.6	1904.1
27.5°	1798.6	1816.7	1837.4	1854.3	1847.8
30°	1737.1	1759.8	1779.8	1800.5	1790.8
32.5°	1676.3	1697.6	1721.6	1746.8	1735.8
35°	1614.8	1634.2	1662.1	1687.3	1678.9
37.5°	1546.9	1570.8	1602.5	1624.5	1618.7
40°	1483.4	1505.4	1543.6	1557.9	1556.5
42.5°	1419.3	1437.5	1477.6	1493.8	1491.2
45°	1341.0	1365.0	1410.9	1426.5	1427.7
47.5°	1271.8	1291.9	1341.0	1353.3	1355.9
50°	1192.2	1217.4	1266.6	1281.5	1283.4
52.5°	1113.8	1141.0	1191.5	1201.9	1203.8
55°	1034.2	1058.8	1113.8	1121.6	1118.4
57.5°	950.8	980.5	1031.0	1034.9	1038.1
60°	869.2	895.1	944.3	949.4	942.3
62.5°	780.6	807.1	857.6	858.8	853.0
65°	696.4	716.5	767.6	766.3	762.4
67.5°	608.4	632.9	670.5	671.8	668.6
70°	526.2	543.0	579.3	579.9	572.2
72.5°	437.5	455.6	484.7	480.9	479.0
75°	351.4	365.7	388.4	390.9	384.4
77.5°	272.5	282.8	299.7	297.7	290.6
80°	191.6	200.0	212.3	209.7	201.9
82.5°	122.3	127.5	135.3	132.0	128.8
85°	66.7	67.3	67.9	67.3	65.4
87.5°	24.6	25.3	25.3	24.6	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)