

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: P489822

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2STD-40-120-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: P489822
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-LD4-2STD-40-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

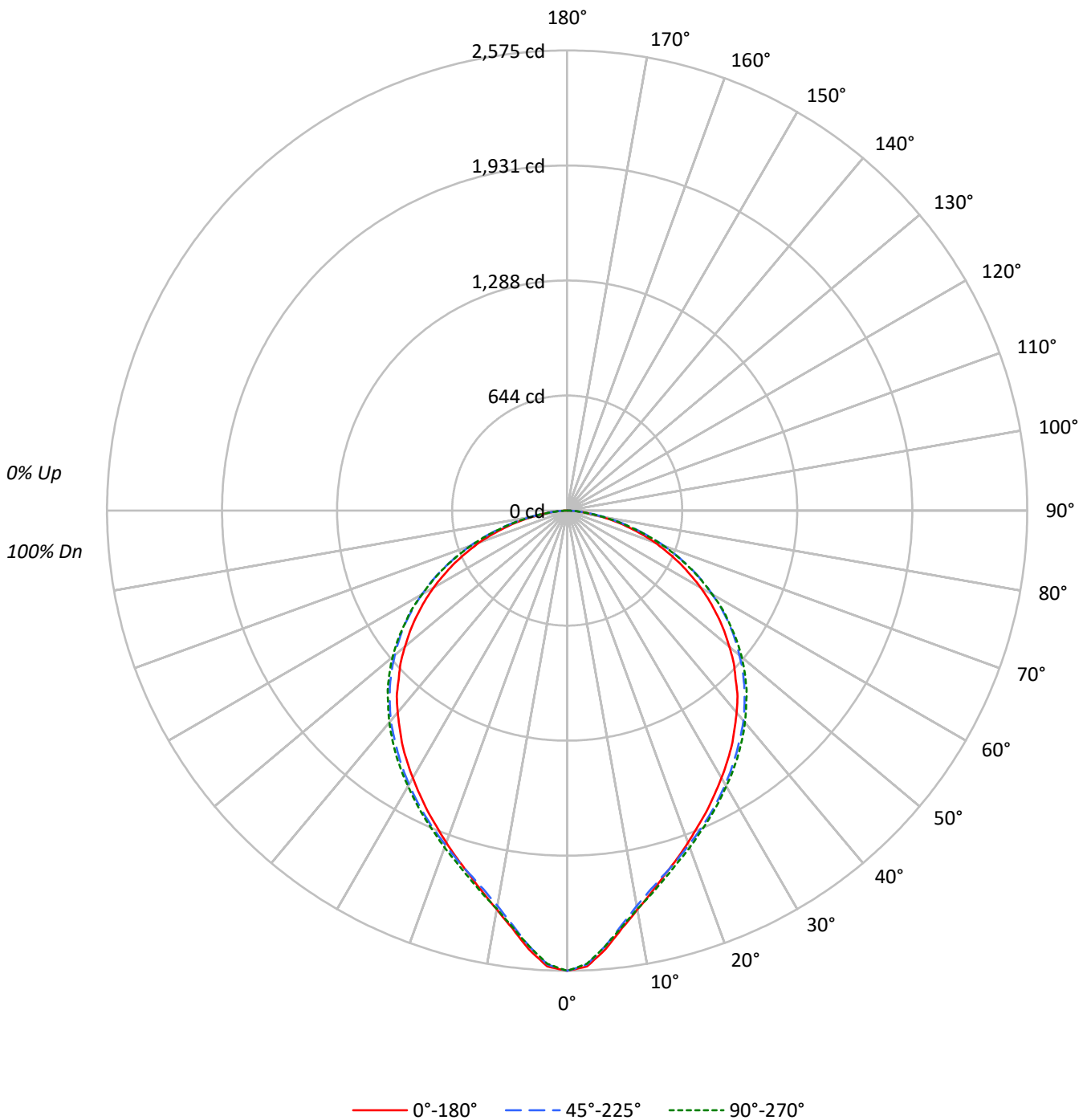
Lumens per Lamp: N/A
Luminaire Lumens: 5982.2 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3465	3465	3465
5°	3327	3304	3304
10°	3097	3068	3092
15°	2938	2933	2962
20°	2831	2851	2873
25°	2750	2795	2811
30°	2683	2749	2767
35°	2637	2714	2742
40°	2591	2696	2718
45°	2537	2669	2701
50°	2481	2636	2671
55°	2412	2598	2609
60°	2326	2527	2521
65°	2204	2430	2414
70°	2058	2266	2238
75°	1816	2007	1987
80°	1476	1636	1556
85°	1024	1044	1003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.6	3.8
10°-20°	596.1	10.0
20°-30°	866.8	14.5
30°-40°	1031.5	17.2
40°-50°	1071.1	17.9
50°-60°	970.3	16.2
60°-70°	732.2	12.2
70°-80°	398.9	6.7
80°-90°	87.7	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°	1690.5	28.3
0°-40°	2722.0	45.5
0°-60°	4763.4	79.6
0°-90°	5982.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5982.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2575	2575	2575	2575	2575	
5°	2464	2458	2446	2445	2446	229
15°	2110	2104	2106	2120	2126	595
25°	1852	1868	1882	1898	1893	853
35°	1606	1625	1653	1678	1669	1004
45°	1333	1357	1403	1418	1420	1031
55°	1028	1053	1108	1115	1112	918
65°	692	712	763	762	758	685
75°	349	364	386	389	382	372
85°	66	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°	2575.4	2575.4	2575.4	2575.4	2575.4
2.5°	2552.9	2550.3	2542.0	2538.7	2538.1
5°	2463.5	2457.7	2446.1	2444.8	2446.1
7.5°	2356.6	2350.2	2338.6	2343.1	2348.9
10°	2266.5	2250.4	2245.9	2252.4	2263.3
12.5°	2186.1	2173.2	2169.3	2186.1	2193.8
15°	2109.5	2104.3	2105.7	2119.8	2126.2
17.5°	2043.2	2040.0	2048.4	2059.3	2062.5
20°	1976.9	1983.4	1991.1	2002.7	2006.5
22.5°	1911.9	1924.1	1937.1	1952.5	1947.3
25°	1852.1	1867.5	1882.4	1897.8	1893.3
27.5°	1788.4	1806.4	1827.0	1843.7	1837.3
30°	1727.2	1749.8	1769.7	1790.3	1780.7
32.5°	1666.8	1688.0	1711.8	1736.9	1726.0
35°	1605.6	1624.9	1652.6	1677.7	1669.3
37.5°	1538.1	1561.9	1593.4	1615.2	1609.5
40°	1475.0	1496.9	1534.8	1549.0	1547.7
42.5°	1411.3	1429.3	1469.2	1485.3	1482.7
45°	1333.4	1357.2	1402.9	1418.4	1419.6
47.5°	1264.5	1284.5	1333.4	1345.6	1348.2
50°	1185.4	1210.5	1259.4	1274.2	1276.1
52.5°	1107.5	1134.5	1184.7	1195.0	1197.0
55°	1028.3	1052.8	1107.5	1115.3	1112.0
57.5°	945.4	975.0	1025.2	1029.0	1032.2
60°	864.2	890.0	938.9	944.0	937.0
62.5°	776.1	802.5	852.7	854.0	848.2
65°	692.4	712.4	763.2	761.9	758.1
67.5°	604.9	629.3	666.7	668.0	664.8
70°	523.2	539.9	576.0	576.6	568.9
72.5°	435.0	453.0	482.0	478.2	476.2
75°	349.4	363.6	386.1	388.7	382.3
77.5°	270.9	281.2	298.0	296.0	288.9
80°	190.5	198.8	211.1	208.5	200.8
82.5°	121.6	126.8	134.5	131.3	128.1
85°	66.3	66.9	67.6	66.9	65.0
87.5°	24.5	25.1	25.1	24.5	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)