

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: P489819

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2STD-30-120-EDD**

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: P489819
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-30-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

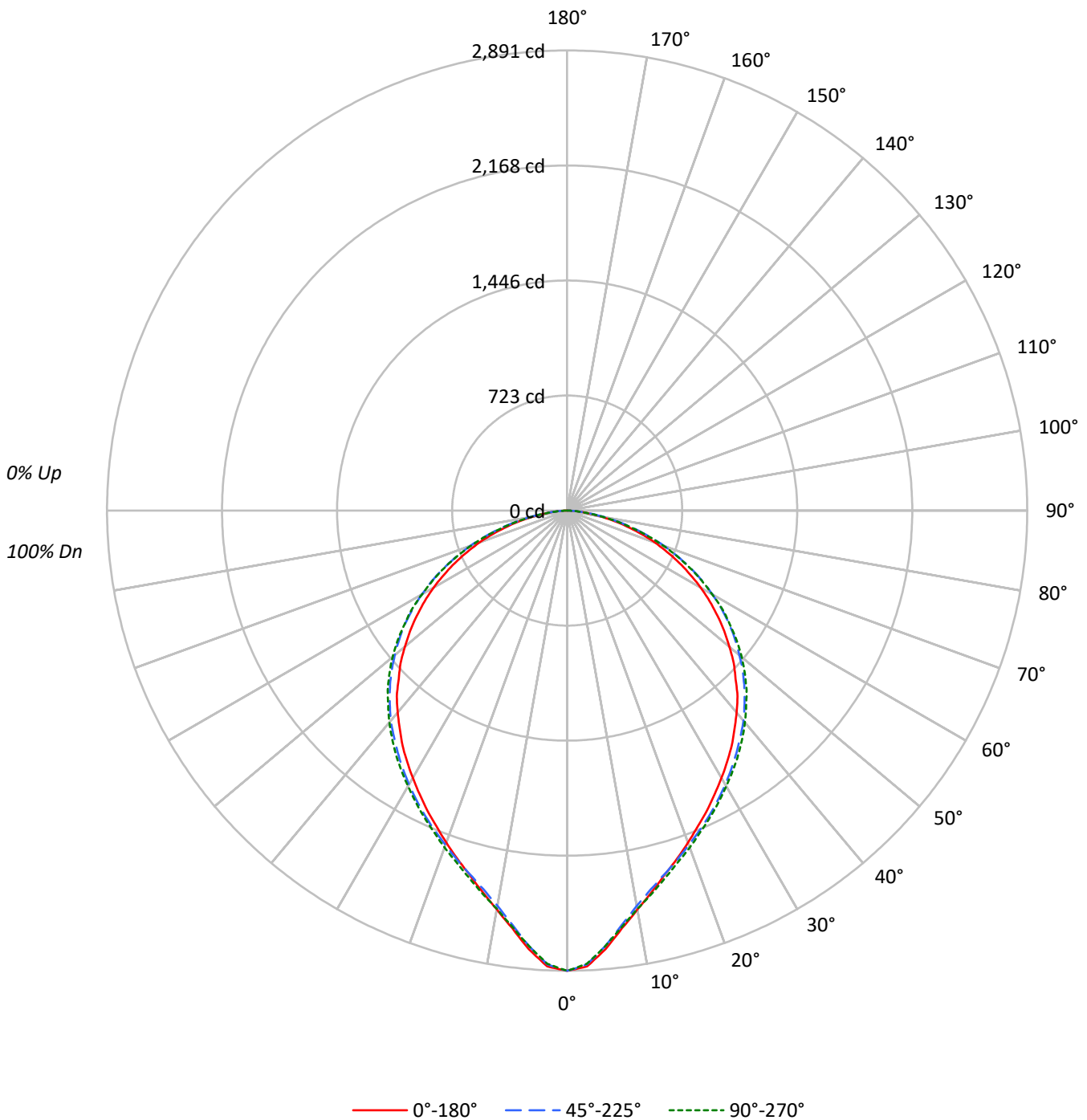
Lumens per Lamp: N/A
Luminaire Lumens: 6716.2 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3890	3890	3890
5°	3735	3709	3709
10°	3477	3445	3472
15°	3299	3293	3325
20°	3178	3201	3226
25°	3087	3137	3156
30°	3013	3087	3106
35°	2961	3048	3078
40°	2909	3027	3052
45°	2849	2997	3033
50°	2786	2960	2999
55°	2708	2917	2929
60°	2611	2837	2831
65°	2475	2728	2710
70°	2311	2544	2513
75°	2039	2254	2231
80°	1657	1836	1746
85°	1149	1170	1127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.5	3.8
10°-20°	669.2	10.0
20°-30°	973.2	14.5
30°-40°	1158.1	17.2
40°-50°	1202.5	17.9
50°-60°	1089.4	16.2
60°-70°	822.0	12.2
70°-80°	447.9	6.7
80°-90°	98.4	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°	1897.9	28.3
0°-40°	3056.0	45.5
0°-60°	5347.8	79.6
0°-90°	6716.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6716.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2891	2891	2891	2891	2891	
5°	2766	2759	2746	2745	2746	257
15°	2368	2362	2364	2380	2387	668
25°	2079	2097	2113	2131	2126	958
35°	1803	1824	1855	1884	1874	1127
45°	1497	1524	1575	1592	1594	1157
55°	1154	1182	1243	1252	1248	1031
65°	777	800	857	855	851	769
75°	392	408	434	436	429	418
85°	74	75	76	75	73	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2891.4	2891.4	2891.4	2891.4	2891.4
2.5°	2866.1	2863.2	2853.8	2850.2	2849.5
5°	2765.7	2759.2	2746.2	2744.8	2746.2
7.5°	2645.8	2638.5	2625.6	2630.6	2637.1
10°	2544.6	2526.6	2521.5	2528.7	2541.0
12.5°	2454.3	2439.9	2435.5	2454.3	2463.0
15°	2368.3	2362.5	2364.0	2379.9	2387.1
17.5°	2293.9	2290.3	2299.7	2312.0	2315.6
20°	2219.5	2226.7	2235.4	2248.4	2252.7
22.5°	2146.5	2160.2	2174.7	2192.0	2186.3
25°	2079.4	2096.7	2113.3	2130.6	2125.6
27.5°	2007.8	2028.0	2051.2	2070.0	2062.7
30°	1939.1	1964.4	1986.9	2010.0	1999.1
32.5°	1871.3	1895.1	1921.8	1950.0	1937.7
35°	1802.6	1824.3	1855.4	1883.6	1874.2
37.5°	1726.8	1753.5	1788.9	1813.4	1807.0
40°	1656.0	1680.5	1723.2	1739.1	1737.6
42.5°	1584.4	1604.7	1649.5	1667.5	1664.6
45°	1497.0	1523.7	1575.0	1592.4	1593.8
47.5°	1419.7	1442.1	1497.0	1510.7	1513.6
50°	1330.8	1359.0	1413.9	1430.5	1432.7
52.5°	1243.4	1273.7	1330.1	1341.6	1343.9
55°	1154.5	1182.0	1243.4	1252.1	1248.5
57.5°	1061.4	1094.6	1151.0	1155.3	1158.9
60°	970.3	999.2	1054.1	1059.9	1052.0
62.5°	871.3	900.9	957.3	958.7	952.2
65°	777.4	799.8	856.8	855.4	851.1
67.5°	679.1	706.6	748.5	749.9	746.4
70°	587.4	606.2	646.6	647.4	638.7
72.5°	488.4	508.6	541.1	536.8	534.7
75°	392.3	408.2	433.5	436.4	429.2
77.5°	304.2	315.7	334.5	332.4	324.4
80°	213.8	223.2	237.0	234.1	225.4
82.5°	136.5	142.4	151.0	147.4	143.8
85°	74.4	75.1	75.8	75.1	73.0
87.5°	27.5	28.2	28.2	27.5	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)