

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1588713

Luminaire Tested: 24CZSP-A-57-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2604-747-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-57-L830
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

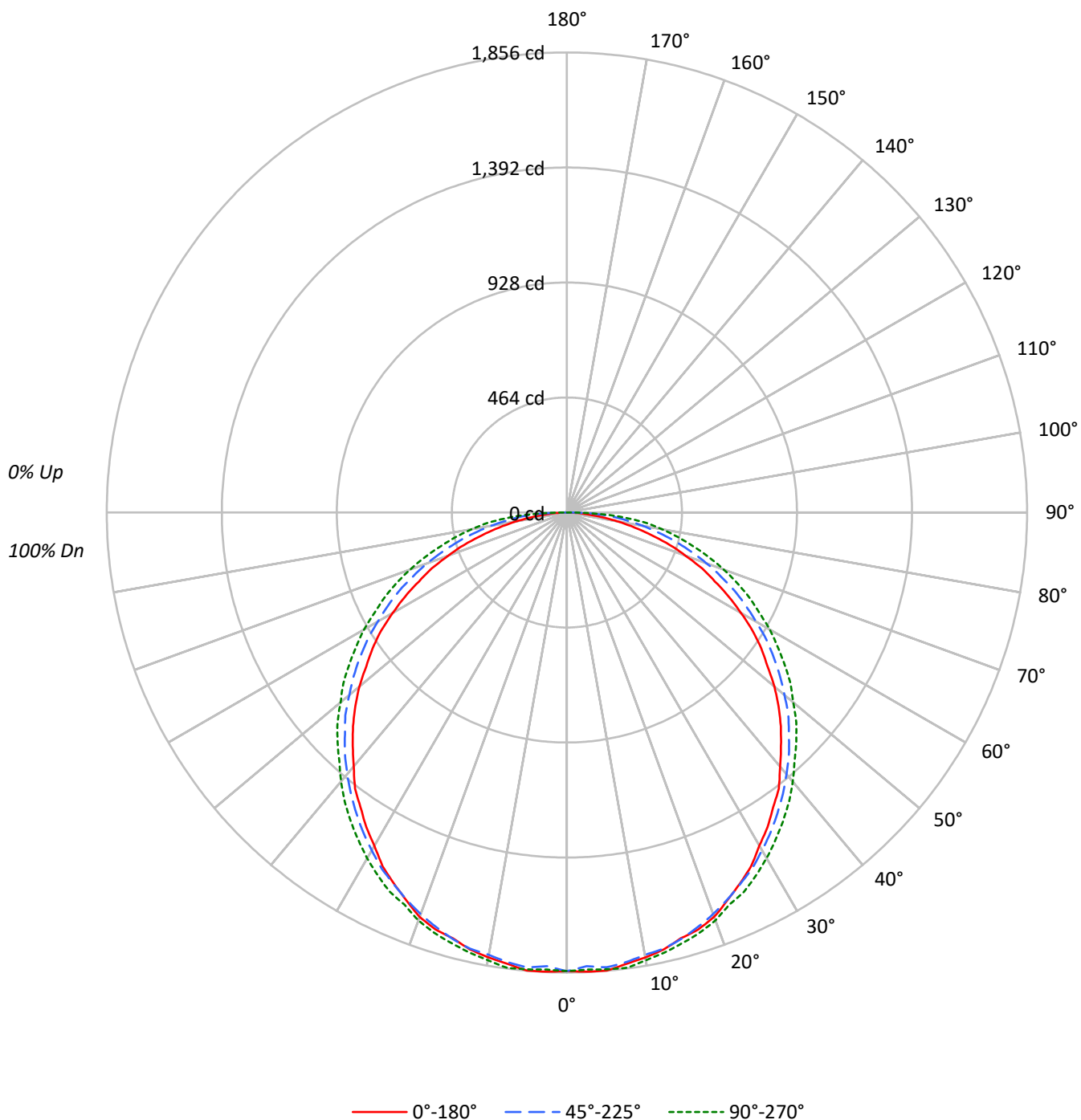
Lumens per Lamp: N/A
Luminaire Lumens: 5647.0 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9
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: 24 FT

TEST NUMBER: P1588713

CATALOG NUMBER: 24CZSP-A-57-L830

Luminous Intensity Polar Plot



TEST NUMBER: P1588713

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	98	94	105	100	96	92	96	93	89		92	89	87		89
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68
4	81	69	60	53	79	67	59	52	65	57	51		62	56	51		60
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		49
7	64	50	41	35	62	49	40	34	47	40	34		46	39	34		45
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2834	2834	2834
5°	2853	2832	2844
10°	2835	2818	2852
15°	2820	2824	2852
20°	2830	2810	2855
25°	2791	2795	2855
30°	2746	2784	2849
35°	2713	2769	2842
40°	2674	2755	2834
45°	2642	2742	2833
50°	2604	2729	2839
55°	2557	2719	2864
60°	2486	2701	2896
65°	2387	2701	2941
70°	2277	2683	3010
75°	2097	2689	3121
80°	1837	2744	3435
85°	1402	3161	4112

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 4558 cd/sqm

TEST NUMBER: P1588713

CATALOG NUMBER: 24CZSP-A-57-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.7	3.1
10°-20°	504.9	8.9
20°-30°	767.0	13.6
30°-40°	929.2	16.5
40°-50°	977.6	17.3
50°-60°	908.9	16.1
60°-70°	731.8	13.0
70°-80°	474.1	8.4
80°-90°	177.8	3.1
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°	1447.7	25.6
0°-40°	2376.8	42.1
0°-60°	4263.3	75.5
0°-90°	5647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5647.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1850	1850	1850	1850	1850	
5°	1856	1853	1842	1853	1850	176
15°	1778	1785	1781	1803	1799	504
25°	1651	1650	1654	1682	1689	761
35°	1451	1462	1481	1507	1520	909
45°	1220	1236	1266	1293	1308	940
55°	958	982	1018	1059	1072	854
65°	659	688	745	790	811	655
75°	354	390	454	507	527	377
85°	80	118	180	224	234	98
90°	0	0	0	0	0	

TEST NUMBER: P1588713

CATALOG NUMBER: 24CZSP-A-57-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1850.1	1850.1	1850.1	1850.1	1850.1
2.5°	1854.1	1854.1	1832.5	1855.5	1846.0
5°	1855.5	1852.8	1842.0	1852.8	1850.1
7.5°	1836.6	1839.3	1829.8	1843.3	1852.8
10°	1823.0	1825.7	1812.2	1833.9	1833.9
12.5°	1805.5	1808.2	1802.8	1823.0	1819.0
15°	1778.4	1785.2	1781.1	1802.8	1798.7
17.5°	1763.5	1758.1	1754.1	1770.3	1778.4
20°	1736.5	1724.3	1724.3	1746.0	1751.4
22.5°	1693.2	1689.1	1690.5	1717.5	1712.1
25°	1651.3	1649.9	1654.0	1682.4	1689.1
27.5°	1609.4	1606.7	1618.8	1645.9	1651.3
30°	1552.6	1558.0	1574.2	1603.9	1610.7
32.5°	1505.2	1514.7	1529.6	1558.0	1566.1
35°	1451.1	1461.9	1480.9	1506.6	1520.1
37.5°	1403.8	1410.6	1430.8	1455.2	1471.4
40°	1337.5	1355.1	1378.1	1413.3	1417.3
42.5°	1278.0	1295.6	1325.4	1363.2	1359.2
45°	1219.9	1236.1	1265.8	1292.9	1307.8
47.5°	1157.7	1172.5	1211.8	1244.2	1255.0
50°	1092.7	1111.7	1145.5	1179.3	1191.5
52.5°	1019.7	1040.0	1083.3	1119.8	1137.4
55°	957.5	981.8	1018.4	1058.9	1072.5
57.5°	888.5	908.8	953.4	994.0	1007.5
60°	811.4	835.8	881.8	925.0	945.3
62.5°	737.1	764.1	812.8	857.4	873.7
65°	658.6	688.4	745.2	789.8	811.4
67.5°	591.0	615.3	670.8	720.8	743.8
70°	508.5	541.0	599.1	654.6	672.1
72.5°	435.5	463.9	524.7	580.2	601.8
75°	354.3	389.5	454.4	507.2	527.4
77.5°	279.9	316.5	381.4	436.8	459.8
80°	208.3	243.4	311.1	367.9	389.5
82.5°	140.6	175.8	243.4	298.9	323.2
85°	79.8	117.7	179.9	224.5	234.0
87.5°	35.2	67.6	101.4	121.7	129.8
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588713

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.30	16.98	15.67	17.30	17.61	15.98	17.66	16.34	17.97	18.29
	3H	17.16	18.69	17.53	19.01	19.37	18.20	19.72	18.57	20.05	20.41
	4H	17.84	19.29	18.24	19.63	20.01	19.16	20.60	19.56	20.95	21.32
	6H	18.34	19.68	18.75	20.04	20.43	20.05	21.39	20.46	21.76	22.15
	8H	18.48	19.77	18.91	20.16	20.55	20.45	21.74	20.88	22.13	22.52
	12H	18.57	19.80	19.00	20.19	20.61	20.81	22.05	21.24	22.43	22.86
4H	2H	16.10	17.54	16.49	17.89	18.26	16.62	18.06	17.01	18.41	18.78
	3H	18.18	19.41	18.59	19.80	20.20	19.08	20.30	19.48	20.69	21.09
	4H	19.00	20.11	19.43	20.53	20.96	20.20	21.32	20.64	21.73	22.16
	6H	19.63	20.60	20.08	21.04	21.50	21.27	22.25	21.73	22.69	23.14
	8H	19.83	20.74	20.28	21.18	21.65	21.77	22.68	22.22	23.12	23.58
	12H	19.96	20.79	20.44	21.26	21.73	22.22	23.04	22.70	23.52	23.99
8H	4H	19.51	20.43	19.97	20.87	21.33	20.55	21.46	21.01	21.90	22.37
	6H	20.30	21.06	20.79	21.55	22.02	21.80	22.56	22.29	23.05	23.52
	8H	20.58	21.27	21.09	21.77	22.26	22.42	23.11	22.93	23.61	24.10
	12H	20.80	21.41	21.30	21.90	22.46	23.03	23.64	23.54	24.13	24.69
12H	4H	19.62	20.45	20.10	20.92	21.39	20.59	21.41	21.06	21.89	22.35
	6H	20.46	21.16	20.97	21.66	22.14	21.87	22.56	22.38	23.07	23.55
	8H	20.83	21.45	21.34	21.94	22.49	22.58	23.19	23.08	23.68	24.24

END OF REPORT