

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: P1588712

Luminaire Tested: 24CZSP-A-57-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-57-L830-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

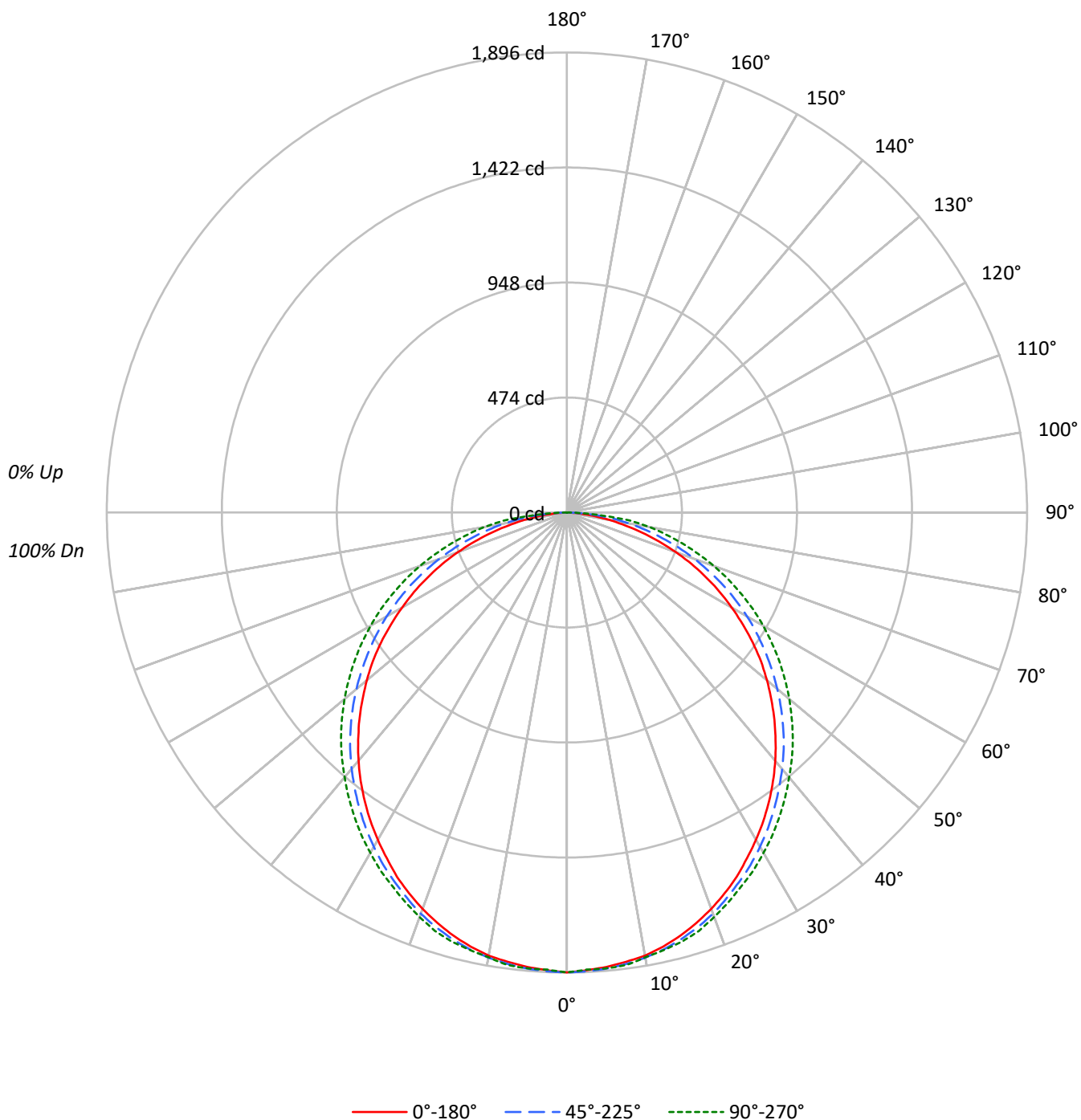
Lumens per Lamp: N/A
Luminaire Lumens: 5534.0 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1588712

CATALOG NUMBER: 24CZSP-A-57-L830-S

Luminous Intensity Polar Plot



TEST NUMBER: P1588712

CATALOG NUMBER: 24CZSP-A-57-L830-S

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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2903	2903	2903
5°	2890	2901	2899
10°	2884	2897	2895
15°	2863	2886	2904
20°	2834	2868	2892
25°	2799	2838	2873
30°	2755	2813	2865
35°	2715	2786	2856
40°	2671	2758	2848
45°	2620	2730	2851
50°	2564	2697	2850
55°	2497	2659	2853
60°	2403	2630	2860
65°	2293	2579	2869
70°	2137	2507	2882
75°	1904	2407	2910
80°	1574	2292	3053
85°	1025	2070	2668

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3149 cd/sqm

TEST NUMBER: P1588712

CATALOG NUMBER: 24CZSP-A-57-L830-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.3	3.2
10°-20°	513.3	9.3
20°-30°	774.2	14.0
30°-40°	932.5	16.8
40°-50°	973.8	17.6
50°-60°	894.3	16.2
60°-70°	704.4	12.7
70°-80°	432.1	7.8
80°-90°	130.1	2.4
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°	1466.8	26.5
0°-40°	2399.2	43.4
0°-60°	4267.4	77.1
0°-90°	5534.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5534.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1896	1896	1896	1896	1896	
5°	1880	1882	1887	1893	1886	179
15°	1806	1809	1820	1831	1831	509
25°	1656	1660	1679	1700	1700	762
35°	1452	1460	1490	1520	1528	908
45°	1210	1223	1260	1304	1316	933
55°	935	952	996	1052	1069	835
65°	633	654	712	771	792	626
75°	322	347	407	471	492	341
85°	58	80	118	149	152	76
90°	0	0	0	0	0	



TEST NUMBER: P1588712

CATALOG NUMBER: 24CZSP-A-57-L830-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1895.5	1895.5	1895.5	1895.5	1895.5
2.5°	1888.3	1891.9	1893.1	1894.3	1885.8
5°	1879.8	1882.2	1887.0	1893.1	1885.8
7.5°	1867.6	1870.0	1876.1	1884.6	1881.0
10°	1854.3	1855.5	1862.8	1868.8	1861.5
12.5°	1832.4	1836.0	1844.5	1849.4	1847.0
15°	1805.7	1809.3	1820.3	1831.2	1831.2
17.5°	1774.1	1779.0	1792.3	1806.9	1808.1
20°	1738.9	1742.5	1759.5	1774.1	1774.1
22.5°	1698.8	1703.7	1720.7	1736.5	1738.9
25°	1656.3	1660.0	1679.4	1700.0	1700.0
27.5°	1606.5	1613.8	1638.1	1658.8	1663.6
30°	1558.0	1564.0	1590.8	1616.3	1619.9
32.5°	1507.0	1514.2	1542.2	1570.1	1576.2
35°	1452.3	1459.6	1490.0	1520.3	1527.6
37.5°	1395.2	1403.7	1435.3	1470.5	1477.8
40°	1335.7	1345.5	1379.5	1417.1	1424.4
42.5°	1272.6	1286.0	1322.4	1361.2	1372.2
45°	1209.5	1222.8	1260.5	1304.2	1316.3
47.5°	1142.7	1158.5	1197.3	1243.5	1256.8
50°	1075.9	1091.7	1131.7	1181.5	1196.1
52.5°	1007.9	1023.7	1065.0	1117.2	1133.0
55°	935.0	952.0	995.7	1051.6	1068.6
57.5°	859.7	881.6	927.7	984.8	1001.8
60°	784.4	806.3	858.5	914.4	933.8
62.5°	710.4	731.0	784.4	843.9	864.6
65°	632.7	654.5	711.6	771.1	791.7
67.5°	556.2	578.0	635.1	697.0	718.9
70°	477.2	501.5	559.8	621.7	643.6
72.5°	398.3	423.8	483.3	546.4	567.1
75°	321.8	347.3	406.8	471.2	491.8
77.5°	246.5	274.4	332.7	398.3	417.7
80°	178.5	205.2	259.9	324.2	346.1
82.5°	114.1	137.2	191.9	252.6	268.4
85°	58.3	80.1	117.8	149.4	151.8
87.5°	18.2	25.5	38.9	58.3	59.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588712

CATALOG NUMBER: 24CZSP-A-57-L830-S

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	15.18	16.84	15.55	17.16	17.47	16.01	17.67	16.38	17.99	18.30
	3H	16.94	18.44	17.31	18.77	19.13	18.13	19.64	18.50	19.96	20.32
	4H	17.56	18.98	17.95	19.32	19.70	19.02	20.44	19.41	20.79	21.16
	6H	17.97	19.29	18.38	19.65	20.04	19.80	21.12	20.21	21.48	21.87
	8H	18.07	19.34	18.50	19.72	20.12	20.12	21.38	20.54	21.77	22.17
	12H	18.13	19.34	18.55	19.72	20.15	20.33	21.54	20.76	21.92	22.35
4H	2H	15.95	17.38	16.35	17.72	18.10	16.60	18.02	17.00	18.37	18.74
	3H	17.93	19.13	18.34	19.52	19.92	18.95	20.15	19.36	20.55	20.95
	4H	18.67	19.75	19.10	20.17	20.60	20.01	21.09	20.44	21.51	21.94
	6H	19.20	20.15	19.65	20.59	21.04	20.96	21.91	21.41	22.35	22.80
	8H	19.34	20.23	19.80	20.68	21.14	21.36	22.25	21.81	22.69	23.15
	12H	19.43	20.23	19.90	20.70	21.17	21.63	22.44	22.11	22.91	23.38
8H	4H	19.13	20.02	19.58	20.46	20.92	20.30	21.19	20.75	21.63	22.09
	6H	19.79	20.53	20.28	21.02	21.49	21.41	22.15	21.90	22.64	23.11
	8H	20.00	20.67	20.51	21.17	21.66	21.92	22.59	22.43	23.09	23.58
	12H	20.14	20.73	20.64	21.22	21.78	22.30	22.90	22.81	23.39	23.94
12H	4H	19.22	20.02	19.69	20.49	20.96	20.32	21.12	20.80	21.60	22.07
	6H	19.92	20.59	20.43	21.09	21.58	21.45	22.12	21.96	22.63	23.11
	8H	20.20	20.79	20.70	21.28	21.84	22.03	22.62	22.54	23.11	23.67