

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: P1588773

Luminaire Tested: 24CZSP-A-62-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588773
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-62-L830
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 5500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

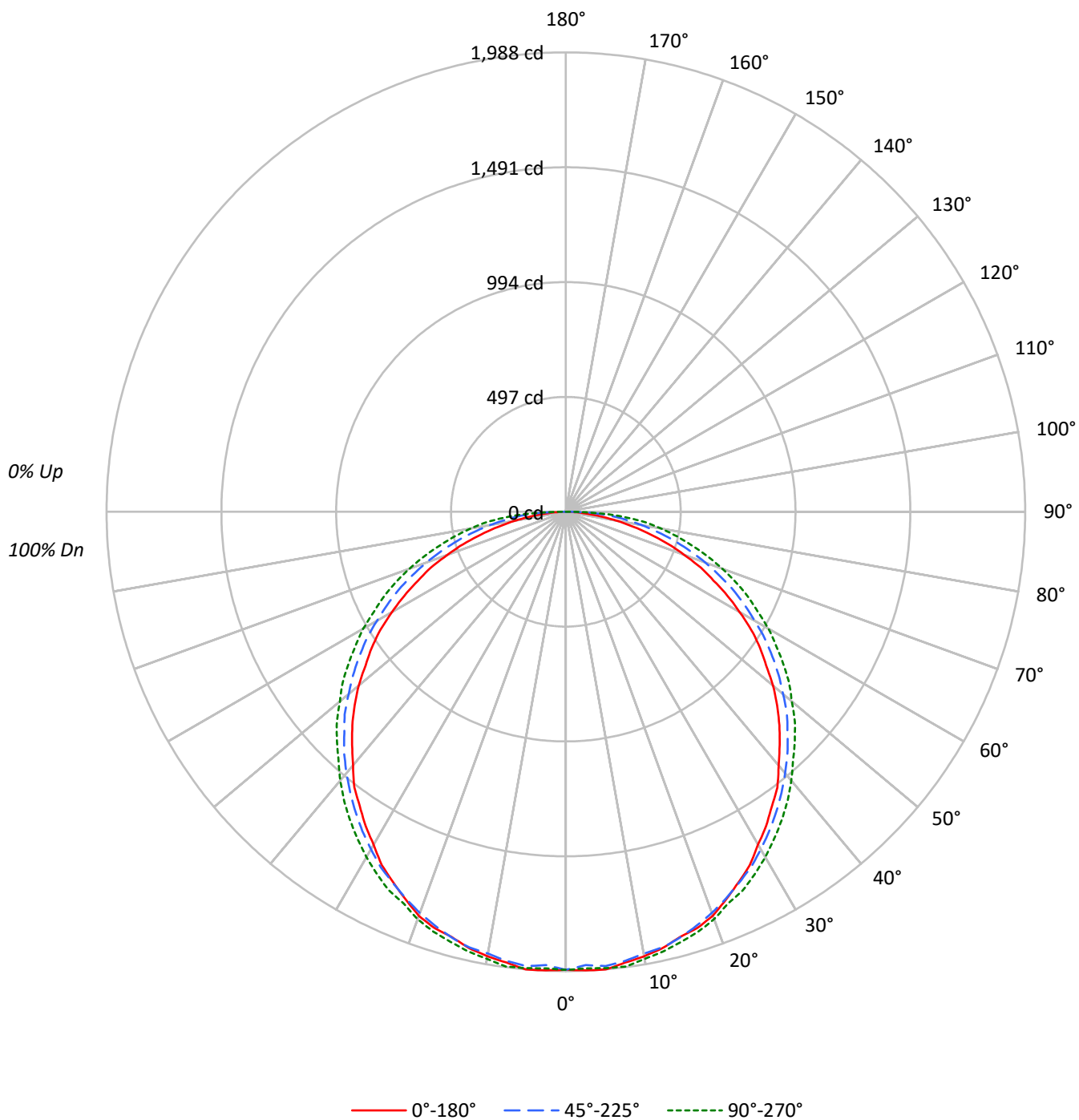
Lumens per Lamp: N/A
Luminaire Lumens: 6050.0 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 44.5
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: P1588773

CATALOG NUMBER: 24CZSP-A-62-L830

Luminous Intensity Polar Plot



TEST NUMBER: P1588773

CATALOG NUMBER: 24CZSP-A-62-L830

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82		
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67		
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56		
4	81	69	60	53	79	67	59	52	65	57	51	62	56	51	60	55	50	48		
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41		
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36		
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32		
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28		
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25		
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3036	3036	3036
5°	3056	3034	3047
10°	3038	3020	3056
15°	3021	3026	3056
20°	3032	3011	3058
25°	2990	2995	3058
30°	2942	2983	3052
35°	2907	2967	3045
40°	2865	2952	3036
45°	2831	2938	3035
50°	2790	2924	3042
55°	2739	2913	3068
60°	2663	2894	3102
65°	2557	2894	3150
70°	2440	2875	3225
75°	2246	2881	3344
80°	1968	2940	3681
85°	1503	3386	4406

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 4884 cd/sqm

TEST NUMBER: P1588773

CATALOG NUMBER: 24CZSP-A-62-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.2	3.1
10°-20°	541.0	8.9
20°-30°	821.8	13.6
30°-40°	995.5	16.5
40°-50°	1047.3	17.3
50°-60°	973.8	16.1
60°-70°	784.1	13.0
70°-80°	507.9	8.4
80°-90°	190.5	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°	1551.0	25.6
0°-40°	2546.4	42.1
0°-60°	4567.5	75.5
0°-90°	6050.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6050.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1982	1982	1982	1982	1982	
5°	1988	1985	1973	1985	1982	188
15°	1905	1913	1908	1931	1927	540
25°	1769	1768	1772	1802	1810	815
35°	1555	1566	1587	1614	1629	974
45°	1307	1324	1356	1385	1401	1008
55°	1026	1052	1091	1134	1149	915
65°	706	738	798	846	869	702
75°	380	417	487	543	565	403
85°	86	126	193	240	251	105
90°	0	0	0	0	0	

TEST NUMBER: P1588773

CATALOG NUMBER: 24CZSP-A-62-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1982.1	1982.1	1982.1	1982.1	1982.1
2.5°	1986.5	1986.5	1963.3	1987.9	1977.8
5°	1987.9	1985.0	1973.4	1985.0	1982.1
7.5°	1967.6	1970.5	1960.4	1974.9	1985.0
10°	1953.1	1956.0	1941.5	1964.7	1964.7
12.5°	1934.3	1937.2	1931.4	1953.1	1948.8
15°	1905.3	1912.6	1908.2	1931.4	1927.1
17.5°	1889.4	1883.6	1879.2	1896.6	1905.3
20°	1860.4	1847.4	1847.4	1870.6	1876.3
22.5°	1814.0	1809.7	1811.1	1840.1	1834.3
25°	1769.1	1767.7	1772.0	1802.5	1809.7
27.5°	1724.2	1721.3	1734.4	1763.3	1769.1
30°	1663.4	1669.2	1686.5	1718.4	1725.7
32.5°	1612.6	1622.8	1638.7	1669.2	1677.8
35°	1554.7	1566.3	1586.6	1614.1	1628.6
37.5°	1504.0	1511.2	1533.0	1559.0	1576.4
40°	1433.0	1451.8	1476.4	1514.1	1518.5
42.5°	1369.2	1388.1	1419.9	1460.5	1456.2
45°	1306.9	1324.3	1356.2	1385.2	1401.1
47.5°	1240.3	1256.2	1298.2	1333.0	1344.6
50°	1170.7	1191.0	1227.2	1263.5	1276.5
52.5°	1092.5	1114.2	1160.6	1199.7	1218.5
55°	1025.8	1051.9	1091.0	1134.5	1149.0
57.5°	951.9	973.7	1021.5	1065.0	1079.4
60°	869.3	895.4	944.7	991.1	1012.8
62.5°	789.7	818.6	870.8	918.6	936.0
65°	705.6	737.5	798.4	846.2	869.3
67.5°	633.2	659.3	718.7	772.3	796.9
70°	544.8	579.6	641.9	701.3	720.1
72.5°	466.6	497.0	562.2	621.6	644.8
75°	379.6	417.3	486.8	543.3	565.1
77.5°	299.9	339.0	408.6	468.0	492.6
80°	223.1	260.8	333.3	394.1	417.3
82.5°	150.7	188.4	260.8	320.2	346.3
85°	85.5	126.1	192.7	240.5	250.7
87.5°	37.7	72.4	108.7	130.4	139.1
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588773

CATALOG NUMBER: 24CZSP-A-62-L830

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	15.54	17.22	15.91	17.54	17.85	16.22	17.90	16.58	18.21	18.53
	3H	17.40	18.93	17.77	19.25	19.61	18.44	19.96	18.81	20.29	20.65
	4H	18.08	19.53	18.48	19.87	20.25	19.40	20.84	19.80	21.19	21.56
	6H	18.58	19.92	18.99	20.28	20.67	20.29	21.63	20.70	22.00	22.39
	8H	18.72	20.01	19.15	20.40	20.79	20.69	21.98	21.12	22.37	22.76
	12H	18.81	20.04	19.24	20.43	20.85	21.05	22.29	21.48	22.67	23.10
4H	2H	16.34	17.78	16.73	18.13	18.50	16.86	18.30	17.25	18.65	19.02
	3H	18.42	19.64	18.83	20.04	20.44	19.32	20.54	19.72	20.93	21.33
	4H	19.24	20.35	19.67	20.77	21.20	20.44	21.55	20.87	21.97	22.40
	6H	19.87	20.84	20.32	21.28	21.74	21.51	22.49	21.97	22.93	23.38
	8H	20.07	20.98	20.52	21.42	21.89	22.00	22.92	22.46	23.36	23.82
	12H	20.20	21.03	20.68	21.50	21.97	22.46	23.28	22.94	23.76	24.22
8H	4H	19.75	20.67	20.21	21.11	21.57	20.79	21.70	21.24	22.14	22.61
	6H	20.54	21.30	21.03	21.79	22.26	22.04	22.80	22.53	23.29	23.76
	8H	20.82	21.51	21.33	22.01	22.50	22.66	23.35	23.17	23.85	24.34
	12H	21.04	21.65	21.54	22.14	22.70	23.27	23.88	23.77	24.37	24.93
12H	4H	19.86	20.69	20.34	21.16	21.63	20.83	21.65	21.30	22.13	22.59
	6H	20.70	21.40	21.21	21.90	22.38	22.11	22.80	22.62	23.31	23.79
	8H	21.07	21.69	21.58	22.18	22.73	22.82	23.43	23.32	23.92	24.47