

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: P1588811

Luminaire Tested: 24CZSP-A-65-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588811
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-65-L950
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 6000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

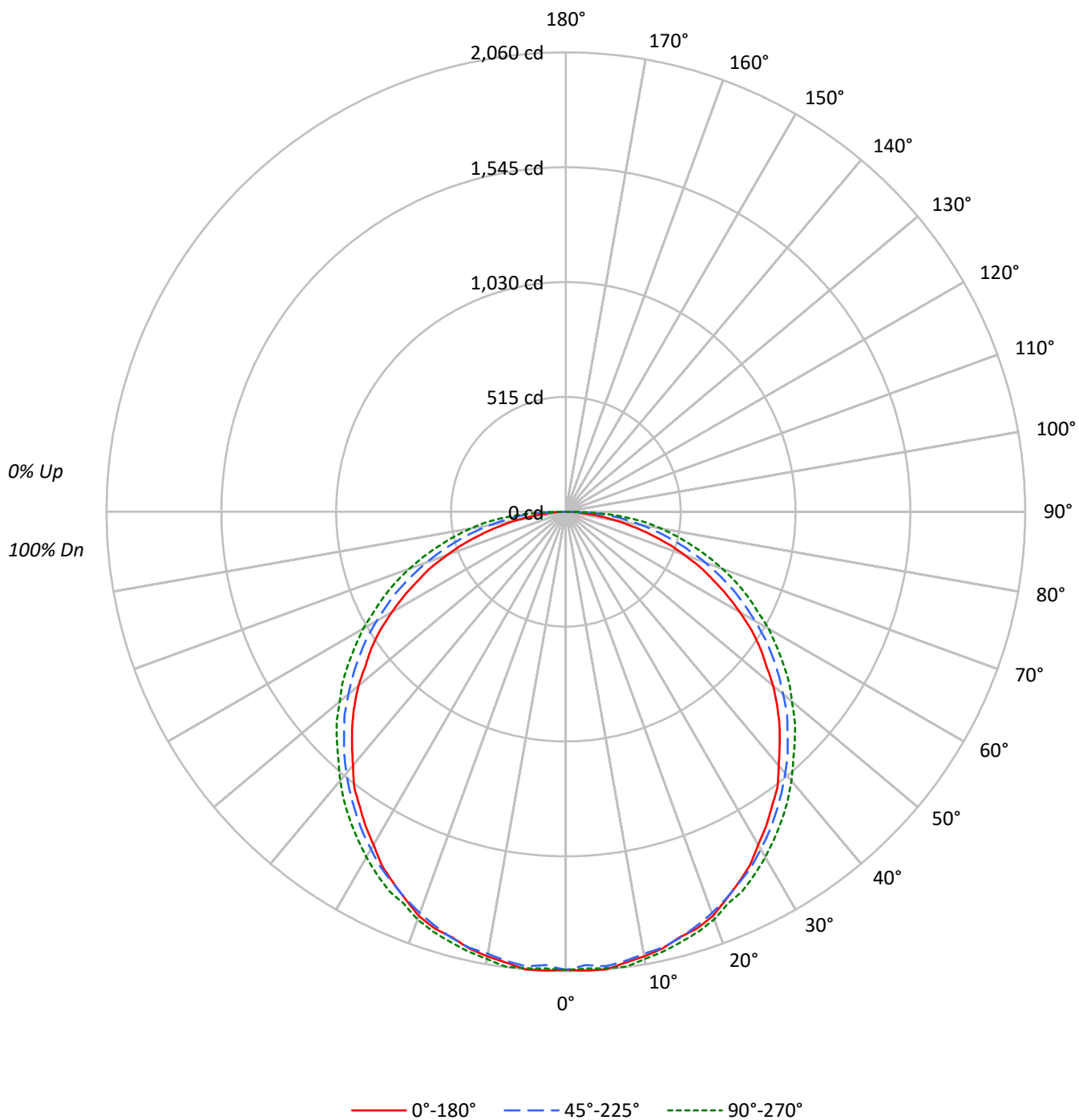
Lumens per Lamp: N/A
Luminaire Lumens: 6271.0 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 47.9
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: P1588811

CATALOG NUMBER: 24CZSP-A-65-L950

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
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°	3147	3147	3147
5°	3168	3145	3159
10°	3149	3130	3167
15°	3132	3136	3167
20°	3143	3121	3170
25°	3099	3104	3170
30°	3049	3092	3163
35°	3013	3075	3156
40°	2970	3060	3147
45°	2934	3045	3146
50°	2892	3031	3153
55°	2839	3020	3180
60°	2760	3000	3216
65°	2651	2999	3266
70°	2529	2979	3343
75°	2329	2986	3466
80°	2040	3047	3815
85°	1557	3509	4566

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 5063 cd/sqm

TEST NUMBER: P1588811

CATALOG NUMBER: 24CZSP-A-65-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.1	3.1
10°-20°	560.7	8.9
20°-30°	851.8	13.6
30°-40°	1031.8	16.5
40°-50°	1085.6	17.3
50°-60°	1009.4	16.1
60°-70°	812.7	13.0
70°-80°	526.4	8.4
80°-90°	197.4	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°	1607.6	25.6
0°-40°	2639.5	42.1
0°-60°	4734.4	75.5
0°-90°	6271.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6271.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2054	2054	2054	2054	2054	
5°	2060	2058	2046	2058	2054	195
15°	1975	1982	1978	2002	1998	560
25°	1834	1832	1837	1868	1876	845
35°	1612	1624	1644	1673	1688	1010
45°	1355	1373	1406	1436	1452	1044
55°	1063	1090	1131	1176	1191	948
65°	731	764	828	877	901	727
75°	394	432	505	563	586	418
85°	89	131	200	249	260	109
90°	0	0	0	0	0	

TEST NUMBER: P1588811

CATALOG NUMBER: 24CZSP-A-65-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2054.5	2054.5	2054.5	2054.5	2054.5
2.5°	2059.0	2059.0	2035.0	2060.5	2050.0
5°	2060.5	2057.5	2045.5	2057.5	2054.5
7.5°	2039.5	2042.5	2032.0	2047.0	2057.5
10°	2024.5	2027.5	2012.5	2036.5	2036.5
12.5°	2005.0	2008.0	2002.0	2024.5	2020.0
15°	1974.9	1982.4	1977.9	2002.0	1997.5
17.5°	1958.4	1952.4	1947.9	1965.9	1974.9
20°	1928.4	1914.9	1914.9	1938.9	1944.9
22.5°	1880.3	1875.8	1877.3	1907.3	1901.3
25°	1833.8	1832.2	1836.8	1868.3	1875.8
27.5°	1787.2	1784.2	1797.7	1827.7	1833.8
30°	1724.1	1730.1	1748.1	1781.2	1788.7
32.5°	1671.6	1682.1	1698.6	1730.1	1739.1
35°	1611.5	1623.5	1644.5	1673.1	1688.1
37.5°	1558.9	1566.4	1589.0	1616.0	1634.0
40°	1485.3	1504.8	1530.4	1569.4	1573.9
42.5°	1419.2	1438.8	1471.8	1513.9	1509.4
45°	1354.7	1372.7	1405.7	1435.8	1452.3
47.5°	1285.6	1302.1	1345.7	1381.7	1393.7
50°	1213.5	1234.5	1272.1	1309.6	1323.1
52.5°	1132.4	1154.9	1203.0	1243.5	1263.1
55°	1063.3	1090.3	1130.9	1175.9	1191.0
57.5°	986.7	1009.2	1058.8	1103.9	1118.9
60°	901.1	928.1	979.2	1027.3	1049.8
62.5°	818.5	848.5	902.6	952.2	970.2
65°	731.4	764.4	827.5	877.1	901.1
67.5°	656.3	683.3	744.9	800.5	826.0
70°	564.7	600.7	665.3	726.9	746.4
72.5°	483.6	515.1	582.7	644.3	668.3
75°	393.5	432.5	504.6	563.2	585.7
77.5°	310.9	351.4	423.5	485.1	510.6
80°	231.3	270.3	345.4	408.5	432.5
82.5°	156.2	195.2	270.3	331.9	358.9
85°	88.6	130.7	199.7	249.3	259.8
87.5°	39.0	75.1	112.6	135.2	144.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588811

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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	15.67	17.35	16.03	17.66	17.98	16.34	18.02	16.71	18.34	18.65
	3H	17.52	19.05	17.90	19.38	19.73	18.56	20.09	18.94	20.41	20.77
	4H	18.21	19.65	18.61	20.00	20.37	19.52	20.97	19.92	21.31	21.69
	6H	18.70	20.04	19.11	20.41	20.80	20.42	21.76	20.83	22.12	22.51
	8H	18.85	20.13	19.27	20.52	20.92	20.82	22.10	21.24	22.49	22.89
	12H	18.94	20.17	19.36	20.55	20.98	21.18	22.41	21.61	22.79	23.22
4H	2H	16.46	17.90	16.86	18.25	18.63	16.98	18.42	17.38	18.77	19.15
	3H	18.55	19.77	18.96	20.16	20.56	19.44	20.66	19.85	21.06	21.46
	4H	19.37	20.48	19.80	20.89	21.32	20.57	21.68	21.00	22.09	22.53
	6H	19.99	20.97	20.44	21.41	21.86	21.64	22.61	22.09	23.05	23.51
	8H	20.19	21.11	20.65	21.55	22.01	22.13	23.04	22.59	23.49	23.95
	12H	20.32	21.15	20.80	21.62	22.09	22.58	23.41	23.06	23.88	24.35
8H	4H	19.88	20.79	20.33	21.23	21.70	20.91	21.83	21.37	22.27	22.73
	6H	20.66	21.43	21.15	21.91	22.39	22.16	22.93	22.65	23.41	23.89
	8H	20.94	21.64	21.45	22.14	22.62	22.78	23.47	23.29	23.98	24.46
	12H	21.16	21.77	21.67	22.26	22.82	23.40	24.01	23.90	24.50	25.05
12H	4H	19.98	20.81	20.46	21.28	21.75	20.95	21.78	21.43	22.25	22.72
	6H	20.83	21.52	21.33	22.02	22.51	22.24	22.93	22.74	23.43	23.91
	8H	21.20	21.81	21.70	22.30	22.86	22.94	23.55	23.44	24.04	24.60