

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: P1588470

Luminaire Tested: 24CZSP-65-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588470
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-65-L950-S
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 6000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

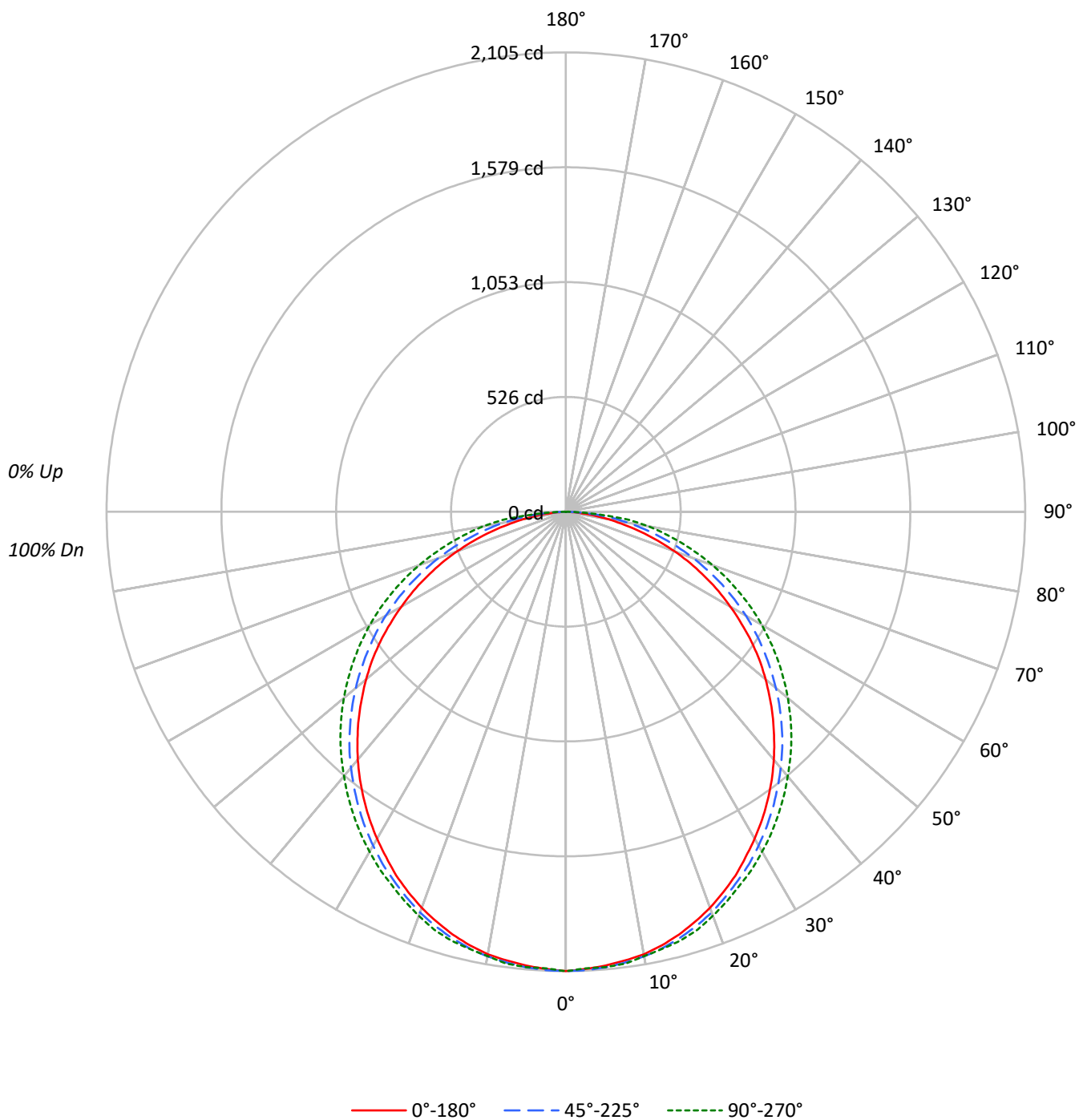
Lumens per Lamp: N/A
Luminaire Lumens: 6145.0 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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	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°	3224	3224	3224
5°	3209	3222	3219
10°	3202	3217	3215
15°	3179	3205	3224
20°	3147	3185	3211
25°	3108	3151	3190
30°	3060	3124	3181
35°	3015	3094	3172
40°	2966	3063	3162
45°	2909	3032	3166
50°	2847	2994	3165
55°	2773	2953	3169
60°	2668	2920	3176
65°	2546	2864	3186
70°	2373	2784	3200
75°	2114	2673	3232
80°	1748	2546	3390
85°	1137	2299	2961

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3497 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.1	3.2
10°-20°	570.0	9.3
20°-30°	859.6	14.0
30°-40°	1035.4	16.8
40°-50°	1081.3	17.6
50°-60°	993.1	16.2
60°-70°	782.2	12.7
70°-80°	479.9	7.8
80°-90°	144.4	2.3
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°	1628.7	26.5
0°-40°	2664.1	43.4
0°-60°	4738.6	77.1
0°-90°	6145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6145.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2105	2105	2105	2105	2105	
5°	2087	2090	2095	2102	2094	198
15°	2005	2009	2021	2033	2033	565
25°	1839	1843	1865	1888	1888	847
35°	1613	1621	1654	1688	1696	1009
45°	1343	1358	1400	1448	1462	1035
55°	1038	1057	1106	1168	1187	927
65°	702	727	790	856	879	695
75°	357	386	452	523	546	379
85°	65	89	131	166	168	84
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2104.8	2104.8	2104.8	2104.8	2104.8
2.5°	2096.7	2100.8	2102.1	2103.5	2094.0
5°	2087.3	2090.0	2095.4	2102.1	2094.0
7.5°	2073.8	2076.5	2083.3	2092.7	2088.6
10°	2059.0	2060.3	2068.4	2075.2	2067.1
12.5°	2034.7	2038.8	2048.2	2053.6	2050.9
15°	2005.0	2009.1	2021.2	2033.4	2033.4
17.5°	1970.0	1975.4	1990.2	2006.4	2007.7
20°	1930.9	1934.9	1953.8	1970.0	1970.0
22.5°	1886.4	1891.8	1910.7	1928.2	1930.9
25°	1839.2	1843.2	1864.8	1887.7	1887.7
27.5°	1783.9	1792.0	1819.0	1841.9	1847.3
30°	1730.0	1736.7	1766.4	1794.7	1798.7
32.5°	1673.3	1681.4	1712.4	1743.5	1750.2
35°	1612.7	1620.8	1654.5	1688.2	1696.3
37.5°	1549.3	1558.7	1593.8	1632.9	1641.0
40°	1483.2	1494.0	1531.8	1573.6	1581.7
42.5°	1413.1	1427.9	1468.4	1511.5	1523.7
45°	1343.0	1357.8	1399.6	1448.2	1461.6
47.5°	1268.8	1286.4	1329.5	1380.7	1395.6
50°	1194.7	1212.2	1256.7	1312.0	1328.2
52.5°	1119.2	1136.7	1182.5	1240.5	1258.0
55°	1038.3	1057.1	1105.7	1167.7	1186.6
57.5°	954.7	978.9	1030.2	1093.5	1112.4
60°	871.1	895.3	953.3	1015.3	1036.9
62.5°	788.8	811.7	871.1	937.1	960.0
65°	702.5	726.8	790.2	856.2	879.1
67.5°	617.6	641.8	705.2	774.0	798.2
70°	529.9	556.9	621.6	690.4	714.6
72.5°	442.3	470.6	536.7	606.8	629.7
75°	357.3	385.6	451.7	523.2	546.1
77.5°	273.7	304.7	369.5	442.3	463.8
80°	198.2	227.9	288.6	360.0	384.3
82.5°	126.7	152.4	213.0	280.5	298.0
85°	64.7	89.0	130.8	165.9	168.5
87.5°	20.2	28.3	43.1	64.7	66.1
90°	0.0	0.0	0.0	0.0	0.0

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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	15.54	17.21	15.91	17.52	17.84	16.37	18.04	16.74	18.35	18.67
	3H	17.30	18.81	17.68	19.13	19.49	18.49	20.00	18.87	20.32	20.68
	4H	17.92	19.34	18.32	19.69	20.06	19.38	20.80	19.78	21.15	21.52
	6H	18.33	19.65	18.74	20.01	20.40	20.16	21.48	20.57	21.85	22.24
	8H	18.44	19.70	18.86	20.09	20.49	20.48	21.74	20.91	22.13	22.53
	12H	18.49	19.70	18.92	20.08	20.51	20.69	21.90	21.12	22.28	22.71
4H	2H	16.32	17.74	16.71	18.09	18.46	16.96	18.39	17.36	18.73	19.11
	3H	18.29	19.49	18.70	19.89	20.29	19.32	20.52	19.73	20.91	21.31
	4H	19.03	20.12	19.46	20.53	20.96	20.37	21.46	20.80	21.87	22.30
	6H	19.56	20.51	20.01	20.95	21.40	21.32	22.27	21.78	22.71	23.17
	8H	19.71	20.60	20.16	21.04	21.50	21.72	22.61	22.18	23.05	23.52
	12H	19.79	20.59	20.27	21.07	21.54	22.00	22.80	22.48	23.27	23.74
8H	4H	19.49	20.38	19.95	20.82	21.29	20.66	21.55	21.12	21.99	22.46
	6H	20.15	20.90	20.64	21.38	21.86	21.77	22.52	22.26	23.00	23.48
	8H	20.36	21.03	20.87	21.54	22.02	22.28	22.95	22.79	23.46	23.94
	12H	20.50	21.09	21.01	21.58	22.14	22.67	23.26	23.17	23.75	24.31
12H	4H	19.58	20.38	20.06	20.86	21.33	20.68	21.49	21.16	21.96	22.43
	6H	20.28	20.95	20.79	21.46	21.94	21.82	22.49	22.33	22.99	23.48
	8H	20.56	21.15	21.07	21.64	22.20	22.40	22.99	22.90	23.48	24.04