

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: P1588822

Luminaire Tested: 24CZSP-A-65VHE-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588822
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-65VHE-L930-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 7000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

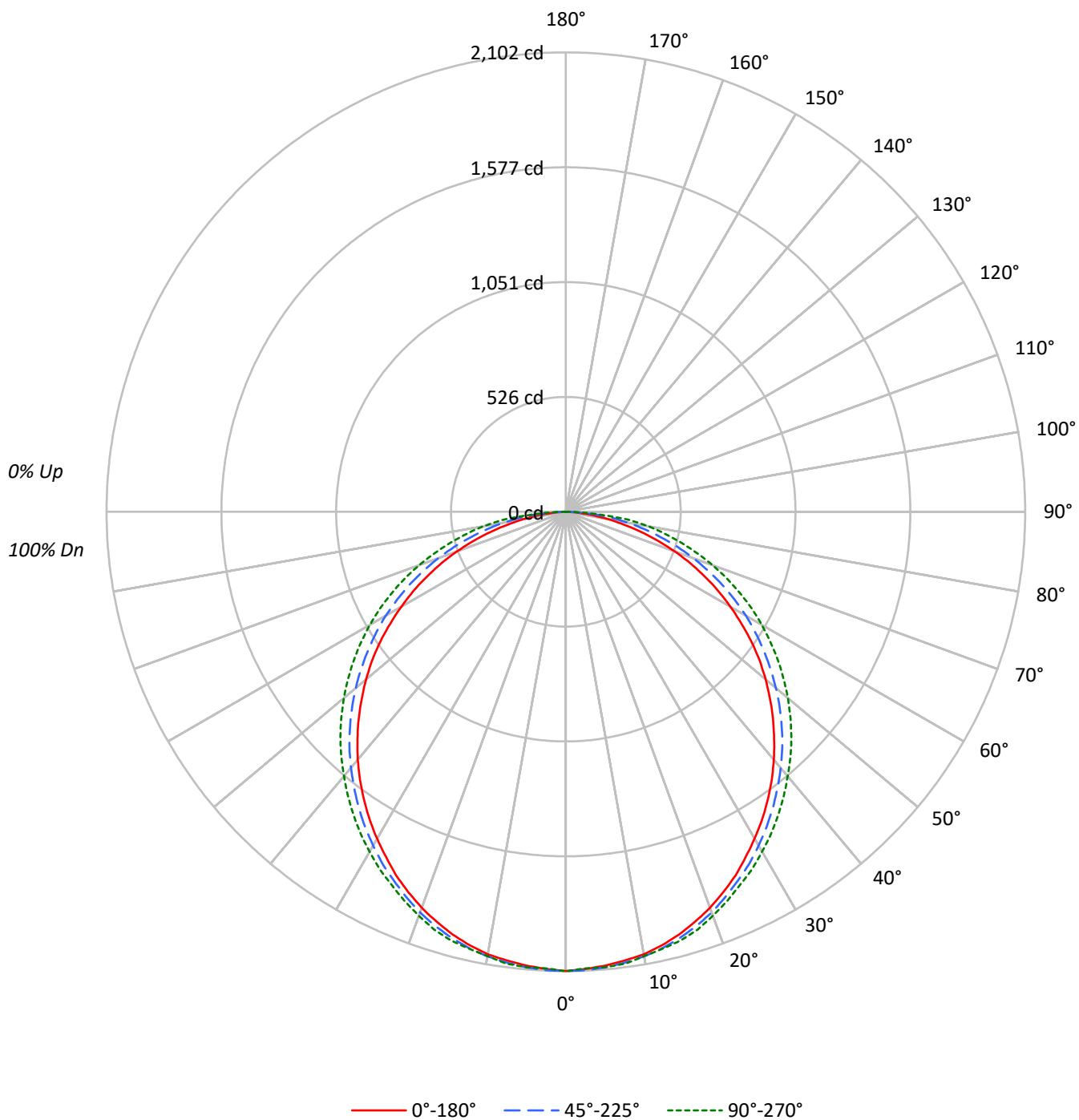
Lumens per Lamp: N/A
Luminaire Lumens: 6136.0 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 50.1
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°	3219	3219	3219
5°	3204	3217	3215
10°	3198	3212	3210
15°	3175	3200	3220
20°	3143	3180	3206
25°	3104	3147	3186
30°	3055	3119	3177
35°	3011	3089	3167
40°	2961	3058	3158
45°	2905	3027	3161
50°	2842	2990	3160
55°	2768	2948	3164
60°	2664	2916	3172
65°	2542	2859	3182
70°	2369	2780	3196
75°	2111	2669	3227
80°	1746	2541	3384
85°	1135	2295	2958

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3492 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.8	3.2
10°-20°	569.2	9.3
20°-30°	858.4	14.0
30°-40°	1033.9	16.8
40°-50°	1079.8	17.6
50°-60°	991.6	16.2
60°-70°	781.0	12.7
70°-80°	479.2	7.8
80°-90°	144.2	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°	1626.3	26.5
0°-40°	2660.2	43.4
0°-60°	4731.6	77.1
0°-90°	6136.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6136.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2102	2102	2102	2102	2102	
5°	2084	2087	2092	2099	2091	198
15°	2002	2006	2018	2030	2030	565
25°	1836	1840	1862	1885	1885	845
35°	1610	1618	1652	1686	1694	1007
45°	1341	1356	1398	1446	1460	1034
55°	1037	1056	1104	1166	1185	926
65°	702	726	789	855	878	694
75°	357	385	451	522	545	378
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°	2101.7	2101.7	2101.7	2101.7	2101.7
2.5°	2093.7	2097.7	2099.1	2100.4	2091.0
5°	2084.2	2086.9	2092.3	2099.1	2091.0
7.5°	2070.8	2073.5	2080.2	2089.6	2085.6
10°	2056.0	2057.3	2065.4	2072.1	2064.0
12.5°	2031.7	2035.8	2045.2	2050.6	2047.9
15°	2002.1	2006.1	2018.3	2030.4	2030.4
17.5°	1967.1	1972.5	1987.3	2003.5	2004.8
20°	1928.1	1932.1	1950.9	1967.1	1967.1
22.5°	1883.6	1889.0	1907.9	1925.4	1928.1
25°	1836.5	1840.5	1862.1	1885.0	1885.0
27.5°	1781.3	1789.4	1816.3	1839.2	1844.6
30°	1727.4	1734.2	1763.8	1792.1	1796.1
32.5°	1670.9	1679.0	1709.9	1740.9	1747.6
35°	1610.3	1618.4	1652.0	1685.7	1693.8
37.5°	1547.0	1556.4	1591.5	1630.5	1638.6
40°	1481.0	1491.8	1529.5	1571.3	1579.3
42.5°	1411.0	1425.8	1466.2	1509.3	1521.4
45°	1341.0	1355.8	1397.6	1446.0	1459.5
47.5°	1267.0	1284.5	1327.6	1378.7	1393.5
50°	1192.9	1210.4	1254.9	1310.1	1326.2
52.5°	1117.5	1135.0	1180.8	1238.7	1256.2
55°	1036.7	1055.6	1104.1	1166.0	1184.8
57.5°	953.3	977.5	1028.7	1091.9	1110.8
60°	869.8	894.0	951.9	1013.8	1035.4
62.5°	787.6	810.5	869.8	935.8	958.6
65°	701.5	725.7	789.0	855.0	877.9
67.5°	616.7	640.9	704.2	772.8	797.1
70°	529.1	556.1	620.7	689.4	713.6
72.5°	441.6	469.9	535.9	605.9	628.8
75°	356.8	385.1	451.0	522.4	545.3
77.5°	273.3	304.3	368.9	441.6	463.2
80°	197.9	227.5	288.1	359.5	383.7
82.5°	126.6	152.1	212.7	280.1	297.6
85°	64.6	88.9	130.6	165.6	168.3
87.5°	20.2	28.3	43.1	64.6	66.0
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	17.20	15.90	17.52	17.83	16.37	18.03	16.73	18.35	18.66
	3H	17.30	18.80	17.67	19.13	19.49	18.49	19.99	18.86	20.32	20.68
	4H	17.91	19.34	18.31	19.68	20.06	19.38	20.80	19.77	21.14	21.52
	6H	18.33	19.65	18.74	20.01	20.40	20.16	21.48	20.57	21.84	22.23
	8H	18.43	19.70	18.86	20.08	20.48	20.48	21.74	20.90	22.13	22.53
	12H	18.48	19.69	18.91	20.08	20.50	20.69	21.90	21.12	22.28	22.71
4H	2H	16.31	17.73	16.71	18.08	18.46	16.96	18.38	17.36	18.73	19.10
	3H	18.29	19.49	18.70	19.88	20.28	19.31	20.51	19.72	20.91	21.31
	4H	19.03	20.11	19.46	20.52	20.96	20.36	21.45	20.80	21.86	22.30
	6H	19.55	20.51	20.01	20.95	21.40	21.32	22.27	21.77	22.71	23.16
	8H	19.70	20.59	20.16	21.03	21.50	21.71	22.61	22.17	23.05	23.51
	12H	19.78	20.59	20.26	21.06	21.53	21.99	22.80	22.47	23.27	23.74
8H	4H	19.48	20.38	19.94	20.82	21.28	20.65	21.55	21.11	21.99	22.45
	6H	20.15	20.89	20.64	21.38	21.85	21.77	22.51	22.26	23.00	23.47
	8H	20.36	21.03	20.86	21.53	22.01	22.28	22.95	22.79	23.45	23.94
	12H	20.50	21.09	21.00	21.58	22.14	22.66	23.26	23.17	23.74	24.30
12H	4H	19.57	20.38	20.05	20.85	21.32	20.68	21.48	21.16	21.96	22.42
	6H	20.28	20.95	20.78	21.45	21.94	21.81	22.48	22.32	22.99	23.47
	8H	20.56	21.15	21.06	21.64	22.20	22.39	22.98	22.90	23.47	24.03