

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: P1588823

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-776-5)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-65VHE-L930
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 7000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

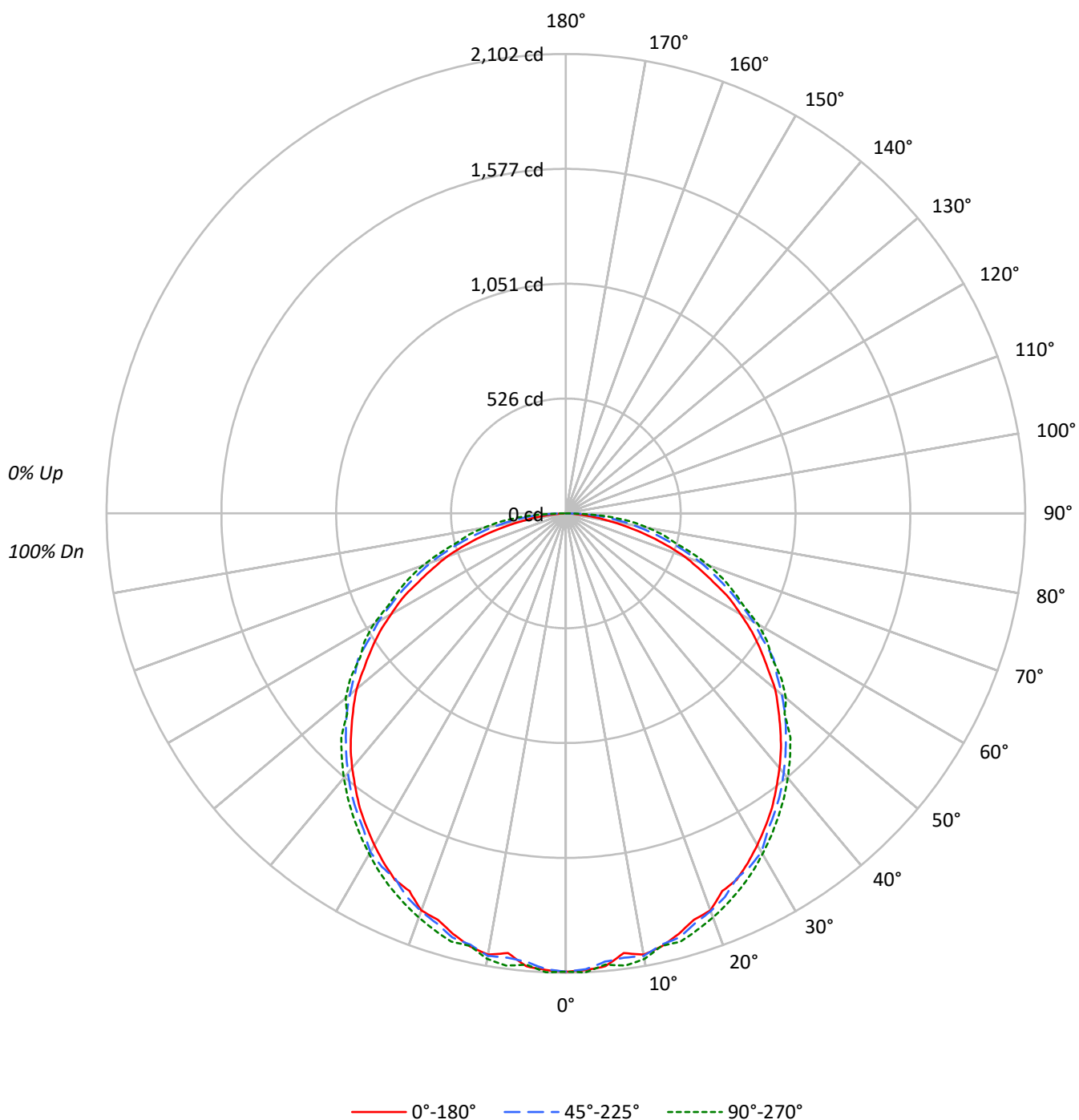
Lumens per Lamp: N/A
Luminaire Lumens: 6261.0 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1588823

CATALOG NUMBER: 24CZSP-A-65VHE-L930

Luminous Intensity Polar Plot



TEST NUMBER: P1588823

CATALOG NUMBER: 24CZSP-A-65VHE-L930

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	105	101	97	93	97	93	90		93	90	87		89	87	85		83
2	98	89	82	76	95	88	81	75	84	78	74		81	76	72		78	74	70		68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59		57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51		48
5	75	62	52	46	73	60	52	45	58	51	45		56	50	44		54	49	44		42
6	69	55	46	40	67	54	46	39	53	45	39		51	44	39		49	43	38		36
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34		32
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30		28
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27		26
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3212	3212	3212
5°	3198	3166	3187
10°	3189	3197	3220
15°	3159	3185	3216
20°	3152	3157	3207
25°	3127	3118	3199
30°	3099	3165	3183
35°	3075	3118	3169
40°	3041	3101	3159
45°	3003	3085	3147
50°	2979	3072	3133
55°	2904	3099	3068
60°	2830	3034	3112
65°	2703	2968	3070
70°	2592	2943	3114
75°	2295	2855	3051
80°	1812	2789	3376
85°	1109	2980	3849

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 3849 cd/sqm

TEST NUMBER: P1588823

CATALOG NUMBER: 24CZSP-A-65VHE-L930

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.1	3.2
10°-20°	565.8	9.0
20°-30°	862.0	13.8
30°-40°	1049.3	16.8
40°-50°	1100.2	17.6
50°-60°	1019.2	16.3
60°-70°	803.7	12.8
70°-80°	497.2	7.9
80°-90°	165.6	2.6
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°	1625.9	26.0
0°-40°	2675.2	42.7
0°-60°	4794.5	76.6
0°-90°	6261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6261.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2097	2097	2097	2097	2097	
5°	2080	2079	2059	2104	2073	196
15°	1992	2003	2009	1994	2028	562
25°	1850	1860	1845	1896	1893	850
35°	1645	1660	1668	1699	1695	1028
45°	1387	1412	1424	1440	1453	1071
55°	1087	1120	1161	1171	1149	973
65°	746	775	819	850	847	742
75°	388	418	482	519	516	409
85°	63	107	170	206	219	85
90°	0	0	0	0	0	

TEST NUMBER: P1588823

CATALOG NUMBER: 24CZSP-A-65VHE-L930

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2097.3	2097.3	2097.3	2097.3	2097.3
2.5°	2091.4	2104.2	2088.0	2101.6	2101.6
5°	2080.3	2079.4	2059.0	2104.2	2072.6
7.5°	2029.2	2064.9	2050.5	2105.9	2087.1
10°	2050.5	2041.1	2055.6	2093.1	2070.1
12.5°	2029.2	2044.5	2021.5	2002.7	2026.6
15°	1992.5	2002.7	2008.7	1994.2	2028.3
17.5°	1949.0	1987.4	1966.9	1960.1	1999.3
20°	1933.7	1935.4	1937.1	1972.1	1967.8
22.5°	1870.6	1904.7	1900.5	1928.6	1932.0
25°	1850.2	1860.4	1845.1	1896.2	1892.8
27.5°	1803.3	1825.5	1822.9	1840.0	1849.3
30°	1752.2	1774.3	1789.7	1770.9	1799.9
32.5°	1699.3	1736.8	1719.8	1754.7	1748.8
35°	1644.8	1660.1	1667.8	1699.3	1695.1
37.5°	1581.7	1608.2	1612.4	1660.1	1639.7
40°	1521.2	1547.6	1551.1	1579.2	1580.0
42.5°	1457.3	1470.1	1488.0	1520.4	1517.8
45°	1386.6	1412.1	1424.1	1440.3	1453.0
47.5°	1318.4	1345.7	1361.0	1387.4	1357.6
50°	1250.2	1269.8	1289.4	1317.5	1315.0
52.5°	1164.1	1208.5	1217.8	1233.2	1243.4
55°	1087.4	1119.8	1160.7	1171.0	1148.8
57.5°	1009.9	1034.6	1064.4	1096.0	1093.4
60°	923.8	953.6	990.3	1014.2	1015.9
62.5°	845.4	865.9	900.8	935.7	917.8
65°	745.7	774.7	819.0	849.7	847.1
67.5°	657.1	688.6	733.8	773.8	775.5
70°	578.7	595.7	657.1	687.7	695.4
72.5°	482.4	512.2	566.7	600.8	604.2
75°	387.8	418.4	482.4	519.0	515.6
77.5°	291.5	335.8	398.0	441.5	455.9
80°	205.4	245.4	316.2	358.8	382.7
82.5°	129.5	171.3	240.3	293.2	307.7
85°	63.1	107.4	169.6	206.2	219.0
87.5°	16.2	44.3	78.4	96.3	104.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588823

CATALOG NUMBER: 24CZSP-A-65VHE-L930

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	15.86	17.53	16.22	17.84	18.16	16.29	17.96	16.65	18.27	18.59
	3H	17.66	19.17	18.03	19.50	19.86	18.36	19.88	18.74	20.20	20.56
	4H	18.30	19.73	18.70	20.08	20.45	19.20	20.63	19.60	20.98	21.36
	6H	18.71	20.04	19.12	20.40	20.80	19.99	21.32	20.40	21.68	22.07
	8H	18.81	20.09	19.24	20.47	20.87	20.34	21.61	20.76	22.00	22.39
	12H	18.86	20.08	19.29	20.46	20.89	20.63	21.85	21.06	22.24	22.66
4H	2H	16.60	18.03	16.99	18.37	18.75	16.93	18.36	17.33	18.71	19.08
	3H	18.63	19.84	19.04	20.23	20.63	19.24	20.45	19.65	20.85	21.25
	4H	19.40	20.50	19.83	20.91	21.34	20.25	21.34	20.68	21.76	22.19
	6H	19.94	20.90	20.39	21.34	21.79	21.20	22.16	21.65	22.60	23.05
	8H	20.08	20.98	20.54	21.42	21.89	21.62	22.53	22.08	22.97	23.43
	12H	20.16	20.98	20.64	21.45	21.92	22.00	22.82	22.48	23.29	23.76
8H	4H	19.85	20.75	20.31	21.19	21.66	20.59	21.49	21.05	21.93	22.39
	6H	20.53	21.28	21.02	21.77	22.24	21.70	22.46	22.20	22.94	23.42
	8H	20.75	21.43	21.26	21.93	22.41	22.25	22.93	22.76	23.43	23.92
	12H	20.90	21.50	21.40	21.99	22.54	22.77	23.37	23.27	23.86	24.42
12H	4H	19.94	20.75	20.41	21.22	21.69	20.62	21.43	21.10	21.91	22.38
	6H	20.66	21.34	21.17	21.85	22.33	21.77	22.45	22.28	22.95	23.44
	8H	20.96	21.56	21.46	22.05	22.61	22.39	22.99	22.90	23.48	24.04