

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: P1588446

Luminaire Tested: 24CZSP-62-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588446
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-62-L940-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 5500 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

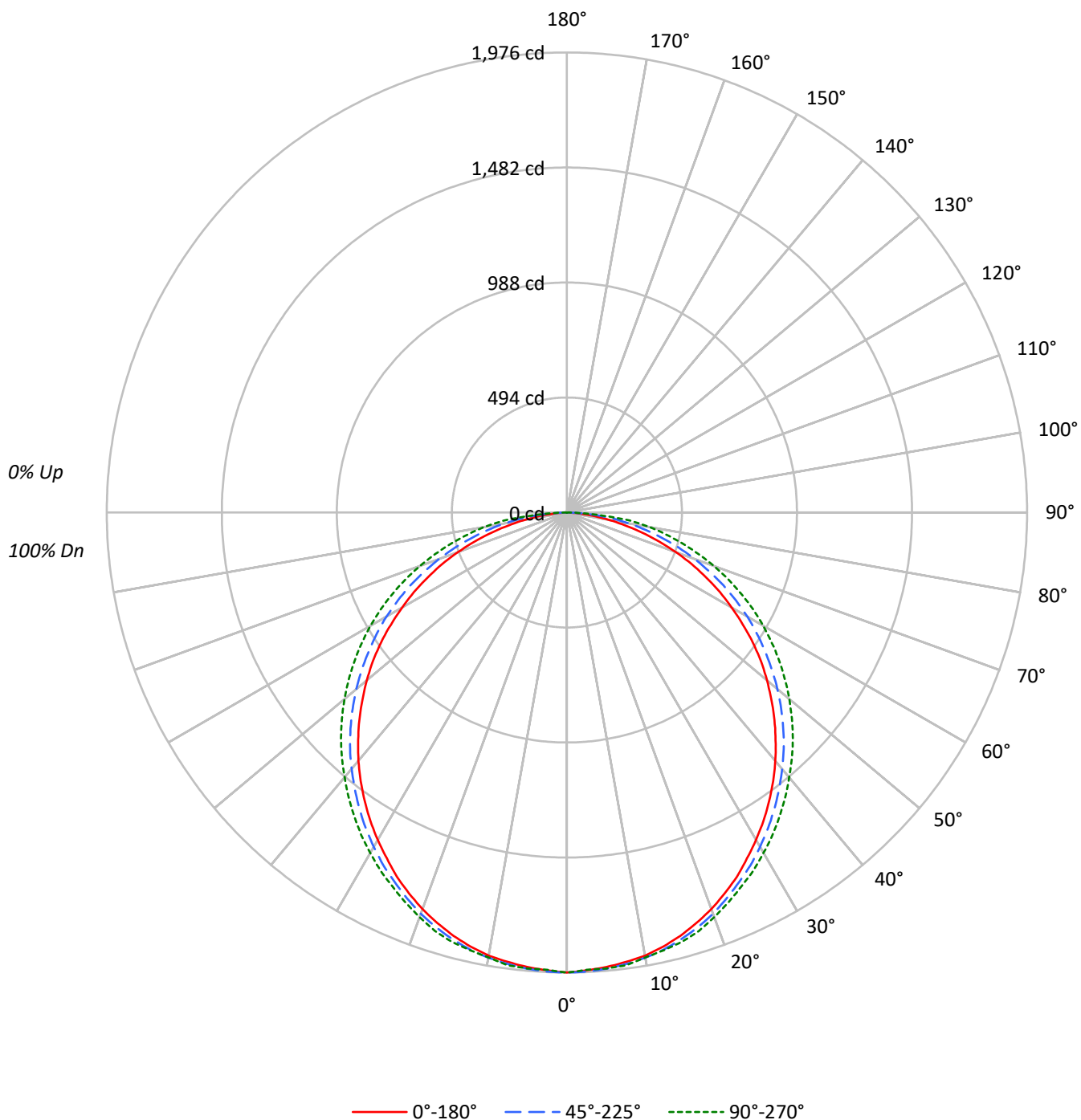
Lumens per Lamp: N/A
Luminaire Lumens: 5769.0 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1588446

CATALOG NUMBER: 24CZSP-62-L940-S

Luminous Intensity Polar Plot



TEST NUMBER: P1588446

CATALOG NUMBER: 24CZSP-62-L940-S

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	99	95	106	101	97	93	97	93	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	64	87	77	69	63	74	67	62		71	65	61		69
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3026	3026	3026
5°	3013	3025	3023
10°	3006	3020	3018
15°	2985	3009	3027
20°	2955	2990	3014
25°	2918	2959	2995
30°	2872	2933	2987
35°	2831	2904	2978
40°	2784	2875	2969
45°	2731	2846	2972
50°	2673	2811	2971
55°	2603	2772	2975
60°	2505	2742	2982
65°	2390	2688	2991
70°	2228	2613	3004
75°	1985	2510	3034
80°	1641	2389	3182
85°	1068	2158	2780

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3283 cd/sqm

TEST NUMBER: P1588446

CATALOG NUMBER: 24CZSP-62-L940-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.9	3.2
10°-20°	535.1	9.3
20°-30°	807.0	14.0
30°-40°	972.1	16.8
40°-50°	1015.2	17.6
50°-60°	932.3	16.2
60°-70°	734.3	12.7
70°-80°	450.5	7.8
80°-90°	135.6	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°	1529.0	26.5
0°-40°	2501.1	43.4
0°-60°	4448.6	77.1
0°-90°	5769.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5769.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1976	1976	1976	1976	1976	
5°	1960	1962	1967	1974	1966	186
15°	1882	1886	1898	1909	1909	531
25°	1727	1730	1751	1772	1772	795
35°	1514	1522	1553	1585	1592	947
45°	1261	1275	1314	1360	1372	972
55°	975	992	1038	1096	1114	870
65°	660	682	742	804	825	652
75°	336	362	424	491	513	356
85°	61	84	123	156	158	79
90°	0	0	0	0	0	



TEST NUMBER: P1588446

CATALOG NUMBER: 24CZSP-62-L940-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1976.0	1976.0	1976.0	1976.0	1976.0
2.5°	1968.4	1972.2	1973.5	1974.8	1965.9
5°	1959.6	1962.1	1967.2	1973.5	1965.9
7.5°	1946.9	1949.5	1955.8	1964.6	1960.8
10°	1933.0	1934.3	1941.9	1948.2	1940.6
12.5°	1910.2	1914.0	1922.9	1927.9	1925.4
15°	1882.4	1886.2	1897.6	1908.9	1908.9
17.5°	1849.4	1854.5	1868.4	1883.6	1884.9
20°	1812.7	1816.5	1834.3	1849.4	1849.4
22.5°	1771.0	1776.0	1793.7	1810.2	1812.7
25°	1726.7	1730.5	1750.7	1772.2	1772.2
27.5°	1674.8	1682.4	1707.7	1729.2	1734.3
30°	1624.1	1630.5	1658.3	1684.9	1688.7
32.5°	1571.0	1578.6	1607.7	1636.8	1643.1
35°	1514.0	1521.6	1553.2	1584.9	1592.5
37.5°	1454.5	1463.4	1496.3	1533.0	1540.6
40°	1392.5	1402.6	1438.0	1477.3	1484.9
42.5°	1326.6	1340.6	1378.5	1419.0	1430.4
45°	1260.8	1274.7	1314.0	1359.6	1372.2
47.5°	1191.2	1207.6	1248.2	1296.3	1310.2
50°	1121.6	1138.0	1179.8	1231.7	1246.9
52.5°	1050.7	1067.1	1110.2	1164.6	1181.1
55°	974.7	992.4	1038.0	1096.3	1114.0
57.5°	896.2	919.0	967.1	1026.6	1044.3
60°	817.8	840.5	895.0	953.2	973.5
62.5°	740.5	762.1	817.8	879.8	901.3
65°	659.5	682.3	741.8	803.8	825.4
67.5°	579.8	602.6	662.1	726.6	749.4
70°	497.5	522.8	583.6	648.1	670.9
72.5°	415.2	441.8	503.8	569.6	591.2
75°	335.5	362.0	424.1	491.2	512.7
77.5°	257.0	286.1	346.9	415.2	435.5
80°	186.1	213.9	270.9	338.0	360.8
82.5°	119.0	143.0	200.0	263.3	279.8
85°	60.8	83.5	122.8	155.7	158.2
87.5°	19.0	26.6	40.5	60.8	62.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588446

CATALOG NUMBER: 24CZSP-62-L940-S

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	15.33	16.99	15.69	17.30	17.62	16.16	17.82	16.52	18.13	18.45
	3H	17.08	18.59	17.46	18.91	19.27	18.27	19.78	18.65	20.11	20.47
	4H	17.70	19.12	18.10	19.47	19.84	19.16	20.58	19.56	20.93	21.31
	6H	18.11	19.43	18.52	19.79	20.19	19.94	21.26	20.35	21.63	22.02
	8H	18.22	19.48	18.64	19.87	20.27	20.26	21.53	20.69	21.91	22.31
	12H	18.27	19.48	18.70	19.86	20.29	20.47	21.68	20.90	22.07	22.49
4H	2H	16.10	17.52	16.49	17.87	18.24	16.74	18.17	17.14	18.51	18.89
	3H	18.07	19.27	18.48	19.67	20.07	19.10	20.30	19.51	20.69	21.09
	4H	18.81	19.90	19.24	20.31	20.74	20.15	21.24	20.58	21.65	22.08
	6H	19.34	20.29	19.79	20.73	21.19	21.10	22.06	21.56	22.50	22.95
	8H	19.49	20.38	19.95	20.82	21.28	21.50	22.39	21.96	22.83	23.30
	12H	19.57	20.37	20.05	20.85	21.32	21.78	22.58	22.26	23.06	23.52
8H	4H	19.27	20.16	19.73	20.60	21.07	20.44	21.33	20.90	21.77	22.24
	6H	19.93	20.68	20.42	21.16	21.64	21.55	22.30	22.04	22.78	23.26
	8H	20.14	20.81	20.65	21.32	21.80	22.06	22.73	22.57	23.24	23.72
	12H	20.28	20.87	20.79	21.36	21.92	22.45	23.04	22.95	23.53	24.09
12H	4H	19.36	20.16	19.84	20.64	21.11	20.46	21.27	20.94	21.74	22.21
	6H	20.06	20.73	20.57	21.24	21.72	21.60	22.27	22.11	22.77	23.26
	8H	20.34	20.93	20.85	21.42	21.98	22.18	22.77	22.68	23.26	23.82