

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: P1588789

Luminaire Tested: 24CZSP-A-62-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588789
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-62-L945
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 5500 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

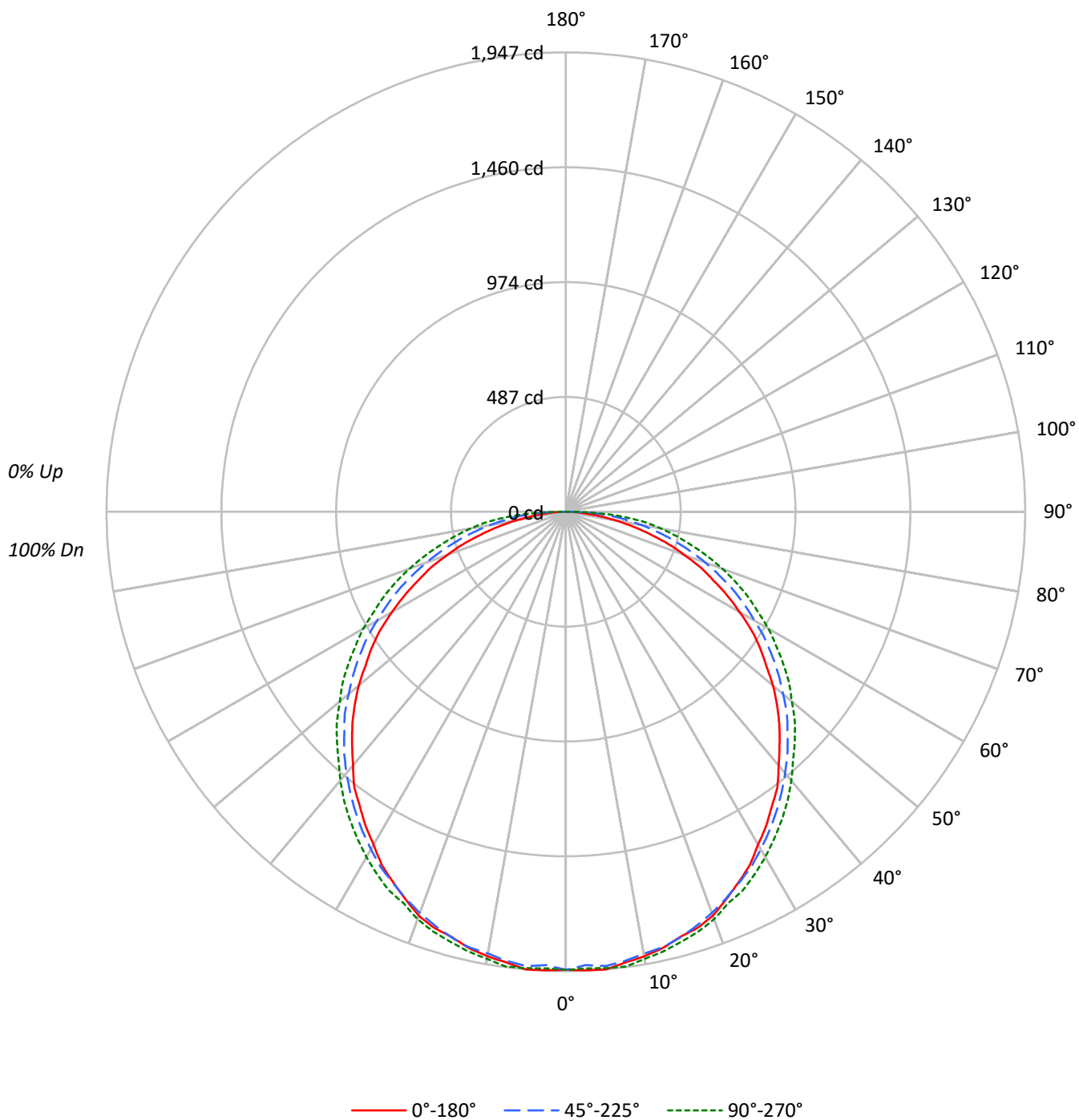
Lumens per Lamp: N/A
Luminaire Lumens: 5925.0 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1588789

CATALOG NUMBER: 24CZSP-A-62-L945

Luminous Intensity Polar Plot



TEST NUMBER: P1588789

CATALOG NUMBER: 24CZSP-A-62-L945

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°	2973	2973	2973
5°	2993	2971	2985
10°	2975	2957	2992
15°	2959	2963	2992
20°	2970	2949	2995
25°	2928	2933	2995
30°	2881	2921	2989
35°	2847	2905	2982
40°	2806	2891	2973
45°	2772	2877	2972
50°	2732	2864	2979
55°	2683	2853	3005
60°	2608	2834	3038
65°	2504	2834	3086
70°	2389	2815	3158
75°	2200	2822	3275
80°	1927	2879	3605
85°	1471	3316	4314

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 4782 cd/sqm

TEST NUMBER: P1588789

CATALOG NUMBER: 24CZSP-A-62-L945

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.3	3.1
10°-20°	529.8	8.9
20°-30°	804.8	13.6
30°-40°	974.9	16.5
40°-50°	1025.7	17.3
50°-60°	953.7	16.1
60°-70°	767.9	13.0
70°-80°	497.4	8.4
80°-90°	186.5	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°	1518.9	25.6
0°-40°	2493.8	42.1
0°-60°	4473.2	75.5
0°-90°	5925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1941	1941	1941	1941	1941	
5°	1947	1944	1933	1944	1941	184
15°	1866	1873	1869	1892	1887	529
25°	1733	1731	1735	1765	1772	799
35°	1523	1534	1554	1581	1595	954
45°	1280	1297	1328	1356	1372	987
55°	1005	1030	1068	1111	1125	896
65°	691	722	782	829	851	687
75°	372	409	477	532	553	395
85°	84	124	189	236	246	103
90°	0	0	0	0	0	

TEST NUMBER: P1588789

CATALOG NUMBER: 24CZSP-A-62-L945

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1941.2	1941.2	1941.2	1941.2	1941.2
2.5°	1945.4	1945.4	1922.7	1946.8	1936.9
5°	1946.8	1944.0	1932.7	1944.0	1941.2
7.5°	1927.0	1929.8	1919.9	1934.1	1944.0
10°	1912.8	1915.6	1901.4	1924.1	1924.1
12.5°	1894.3	1897.2	1891.5	1912.8	1908.5
15°	1866.0	1873.1	1868.8	1891.5	1887.2
17.5°	1850.3	1844.7	1840.4	1857.4	1866.0
20°	1822.0	1809.2	1809.2	1831.9	1837.6
22.5°	1776.6	1772.3	1773.7	1802.1	1796.4
25°	1732.6	1731.2	1735.4	1765.2	1772.3
27.5°	1688.6	1685.7	1698.5	1726.9	1732.6
30°	1629.0	1634.7	1651.7	1682.9	1690.0
32.5°	1579.3	1589.3	1604.9	1634.7	1643.2
35°	1522.6	1533.9	1553.8	1580.7	1594.9
37.5°	1472.9	1480.0	1501.3	1526.8	1543.8
40°	1403.4	1421.8	1445.9	1482.8	1487.1
42.5°	1340.9	1359.4	1390.6	1430.3	1426.1
45°	1279.9	1296.9	1328.2	1356.5	1372.2
47.5°	1214.6	1230.3	1271.4	1305.5	1316.8
50°	1146.5	1166.4	1201.9	1237.4	1250.1
52.5°	1069.9	1091.2	1136.6	1174.9	1193.4
55°	1004.6	1030.2	1068.5	1111.1	1125.3
57.5°	932.3	953.6	1000.4	1042.9	1057.1
60°	851.4	876.9	925.2	970.6	991.9
62.5°	773.3	801.7	852.8	899.6	916.7
65°	691.0	722.3	781.9	828.7	851.4
67.5°	620.1	645.6	703.8	756.3	780.4
70°	533.5	567.6	628.6	686.8	705.2
72.5°	456.9	486.7	550.6	608.7	631.4
75°	371.8	408.7	476.8	532.1	553.4
77.5°	293.7	332.0	400.2	458.3	482.5
80°	218.5	255.4	326.4	386.0	408.7
82.5°	147.6	184.5	255.4	313.6	339.1
85°	83.7	123.5	188.7	235.6	245.5
87.5°	36.9	70.9	106.4	127.7	136.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588789

CATALOG NUMBER: 24CZSP-A-62-L945

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	15.47	17.15	15.83	17.47	17.78	16.14	17.83	16.51	18.14	18.45
	3H	17.32	18.85	17.70	19.18	19.54	18.36	19.89	18.74	20.22	20.58
	4H	18.01	19.45	18.41	19.80	20.18	19.33	20.77	19.72	21.12	21.49
	6H	18.50	19.85	18.91	20.21	20.60	20.22	21.56	20.63	21.92	22.31
	8H	18.65	19.93	19.07	20.32	20.72	20.62	21.91	21.04	22.29	22.69
	12H	18.74	19.97	19.17	20.35	20.78	20.98	22.21	21.41	22.59	23.02
4H	2H	16.26	17.71	16.66	18.05	18.43	16.78	18.23	17.18	18.57	18.95
	3H	18.35	19.57	18.76	19.97	20.37	19.24	20.46	19.65	20.86	21.26
	4H	19.17	20.28	19.60	20.69	21.13	20.37	21.48	20.80	21.89	22.33
	6H	19.80	20.77	20.25	21.21	21.66	21.44	22.42	21.89	22.86	23.31
	8H	19.99	20.91	20.45	21.35	21.81	21.93	22.85	22.39	23.29	23.75
	12H	20.13	20.95	20.61	21.43	21.90	22.38	23.21	22.86	23.68	24.15
8H	4H	19.68	20.59	20.14	21.04	21.50	20.71	21.63	21.17	22.07	22.53
	6H	20.46	21.23	20.96	21.72	22.19	21.96	22.73	22.46	23.22	23.69
	8H	20.75	21.44	21.25	21.94	22.43	22.59	23.28	23.09	23.78	24.27
	12H	20.97	21.58	21.47	22.07	22.62	23.20	23.81	23.70	24.30	24.86
12H	4H	19.79	20.61	20.27	21.09	21.55	20.75	21.58	21.23	22.05	22.52
	6H	20.63	21.32	21.14	21.83	22.31	22.04	22.73	22.54	23.23	23.72
	8H	21.00	21.61	21.51	22.10	22.66	22.74	23.36	23.25	23.85	24.40