

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: P1588785

Luminaire Tested: 24CZSP-A-62-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588785
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-L935
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 5500 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

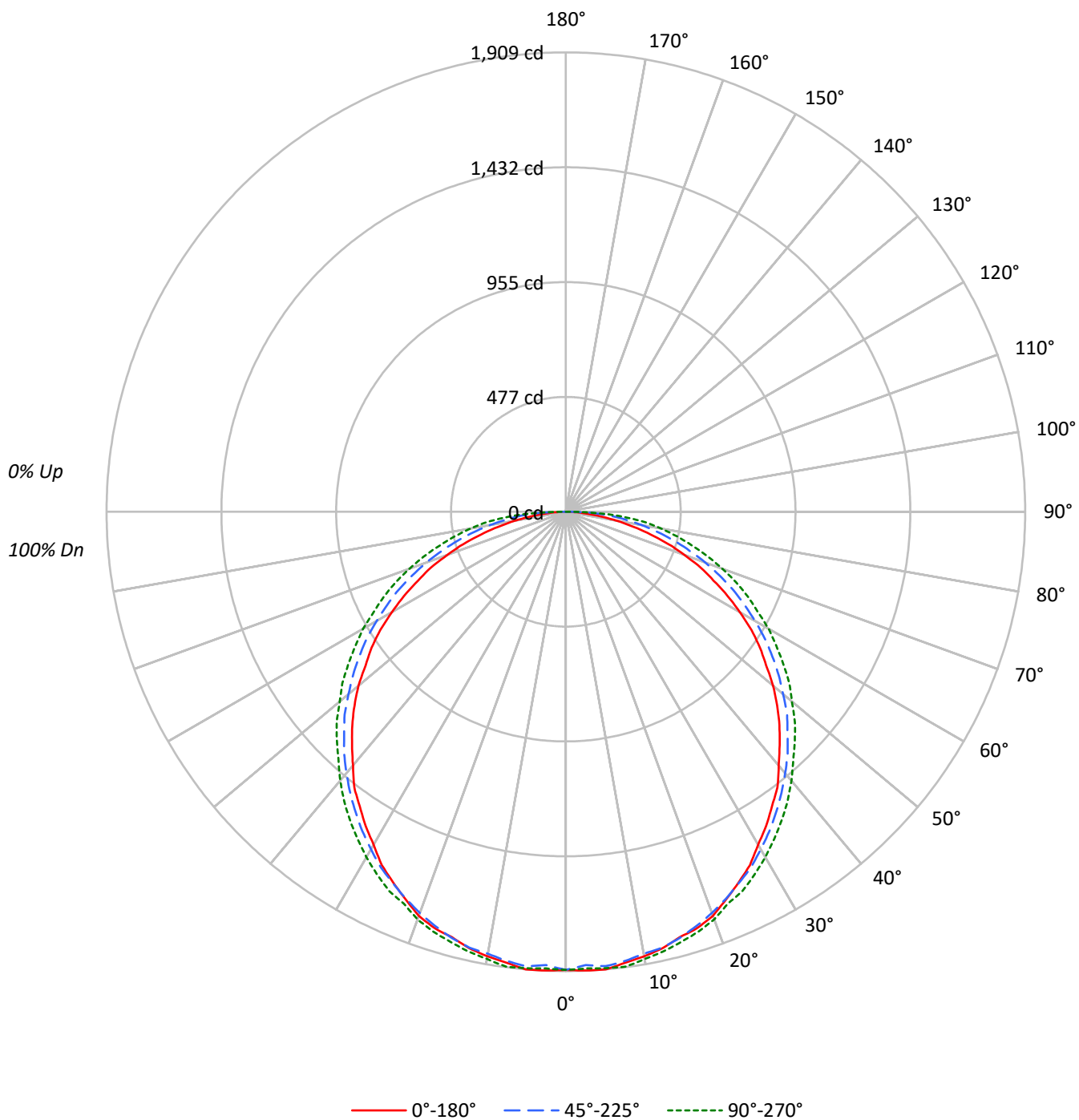
Lumens per Lamp: N/A
Luminaire Lumens: 5811.0 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

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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
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°	2916	2916	2916
5°	2936	2914	2927
10°	2918	2900	2935
15°	2902	2906	2935
20°	2913	2892	2937
25°	2872	2876	2937
30°	2825	2865	2931
35°	2792	2849	2925
40°	2752	2835	2916
45°	2719	2821	2915
50°	2679	2809	2922
55°	2631	2798	2947
60°	2558	2780	2980
65°	2456	2779	3026
70°	2343	2761	3098
75°	2158	2767	3212
80°	1890	2823	3535
85°	1443	3253	4232

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 4691 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.8	3.1
10°-20°	519.6	8.9
20°-30°	789.3	13.6
30°-40°	956.2	16.5
40°-50°	1005.9	17.3
50°-60°	935.3	16.1
60°-70°	753.1	13.0
70°-80°	487.8	8.4
80°-90°	183.0	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°	1489.7	25.6
0°-40°	2445.8	42.1
0°-60°	4387.1	75.5
0°-90°	5811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5811.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1904	1904	1904	1904	1904	
5°	1909	1907	1896	1907	1904	181
15°	1830	1837	1833	1855	1851	518
25°	1699	1698	1702	1731	1738	783
35°	1493	1504	1524	1550	1564	936
45°	1255	1272	1303	1330	1346	968
55°	985	1010	1048	1090	1104	879
65°	678	708	767	813	835	674
75°	365	401	468	522	543	387
85°	82	121	185	231	241	101
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1903.8	1903.8	1903.8	1903.8	1903.8
2.5°	1908.0	1908.0	1885.7	1909.4	1899.6
5°	1909.4	1906.6	1895.5	1906.6	1903.8
7.5°	1889.9	1892.7	1882.9	1896.9	1906.6
10°	1876.0	1878.8	1864.8	1887.1	1887.1
12.5°	1857.9	1860.7	1855.1	1876.0	1871.8
15°	1830.1	1837.0	1832.8	1855.1	1850.9
17.5°	1814.7	1809.2	1805.0	1821.7	1830.1
20°	1786.9	1774.4	1774.4	1796.7	1802.2
22.5°	1742.4	1738.2	1739.6	1767.4	1761.9
25°	1699.2	1697.8	1702.0	1731.2	1738.2
27.5°	1656.1	1653.3	1665.8	1693.7	1699.2
30°	1597.6	1603.2	1619.9	1650.5	1657.5
32.5°	1548.9	1558.7	1574.0	1603.2	1611.6
35°	1493.3	1504.4	1523.9	1550.3	1564.2
37.5°	1444.6	1451.5	1472.4	1497.4	1514.1
40°	1376.4	1394.5	1418.1	1454.3	1458.5
42.5°	1315.1	1333.2	1363.8	1402.8	1398.6
45°	1255.3	1272.0	1302.6	1330.4	1345.8
47.5°	1191.3	1206.6	1246.9	1280.3	1291.5
50°	1124.5	1144.0	1178.8	1213.5	1226.1
52.5°	1049.3	1070.2	1114.7	1152.3	1170.4
55°	985.3	1010.4	1047.9	1089.7	1103.6
57.5°	914.3	935.2	981.1	1022.9	1036.8
60°	835.0	860.1	907.4	951.9	972.8
62.5°	758.5	786.3	836.4	882.3	899.0
65°	677.7	708.4	766.8	812.7	835.0
67.5°	608.2	633.2	690.3	741.8	765.4
70°	523.3	556.7	616.5	673.6	691.7
72.5°	448.1	477.3	540.0	597.0	619.3
75°	364.6	400.8	467.6	521.9	542.8
77.5°	288.1	325.7	392.5	449.5	473.2
80°	214.3	250.5	320.1	378.5	400.8
82.5°	144.7	180.9	250.5	307.6	332.6
85°	82.1	121.1	185.1	231.0	240.8
87.5°	36.2	69.6	104.4	125.3	133.6
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	15.40	17.08	15.77	17.40	17.71	16.08	17.76	16.44	18.07	18.39
	3H	17.26	18.78	17.63	19.11	19.47	18.30	19.82	18.67	20.15	20.51
	4H	17.94	19.39	18.34	19.73	20.11	19.26	20.70	19.66	21.05	21.42
	6H	18.43	19.78	18.85	20.14	20.53	20.15	21.49	20.56	21.86	22.25
	8H	18.58	19.87	19.01	20.26	20.65	20.55	21.84	20.98	22.23	22.62
	12H	18.67	19.90	19.10	20.29	20.71	20.91	22.15	21.34	22.53	22.96
4H	2H	16.20	17.64	16.59	17.99	18.36	16.72	18.16	17.11	18.51	18.88
	3H	18.28	19.50	18.69	19.90	20.30	19.18	20.40	19.58	20.79	21.19
	4H	19.10	20.21	19.53	20.63	21.06	20.30	21.41	20.73	21.83	22.26
	6H	19.73	20.70	20.18	21.14	21.60	21.37	22.35	21.83	22.79	23.24
	8H	19.93	20.84	20.38	21.28	21.75	21.86	22.78	22.32	23.22	23.68
	12H	20.06	20.89	20.54	21.36	21.83	22.32	23.14	22.80	23.62	24.08
8H	4H	19.61	20.53	20.07	20.97	21.43	20.65	21.56	21.10	22.00	22.47
	6H	20.40	21.16	20.89	21.65	22.12	21.90	22.66	22.39	23.15	23.62
	8H	20.68	21.37	21.19	21.87	22.36	22.52	23.21	23.03	23.71	24.20
	12H	20.90	21.51	21.40	22.00	22.56	23.13	23.74	23.63	24.23	24.79
12H	4H	19.72	20.55	20.20	21.02	21.49	20.69	21.51	21.16	21.99	22.45
	6H	20.56	21.26	21.07	21.76	22.24	21.97	22.66	22.48	23.17	23.65
	8H	20.93	21.55	21.44	22.04	22.59	22.68	23.29	23.18	23.78	24.33