

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: P1588438

Luminaire Tested: 24CZSP-62-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588438
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-L845-S
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 5500 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

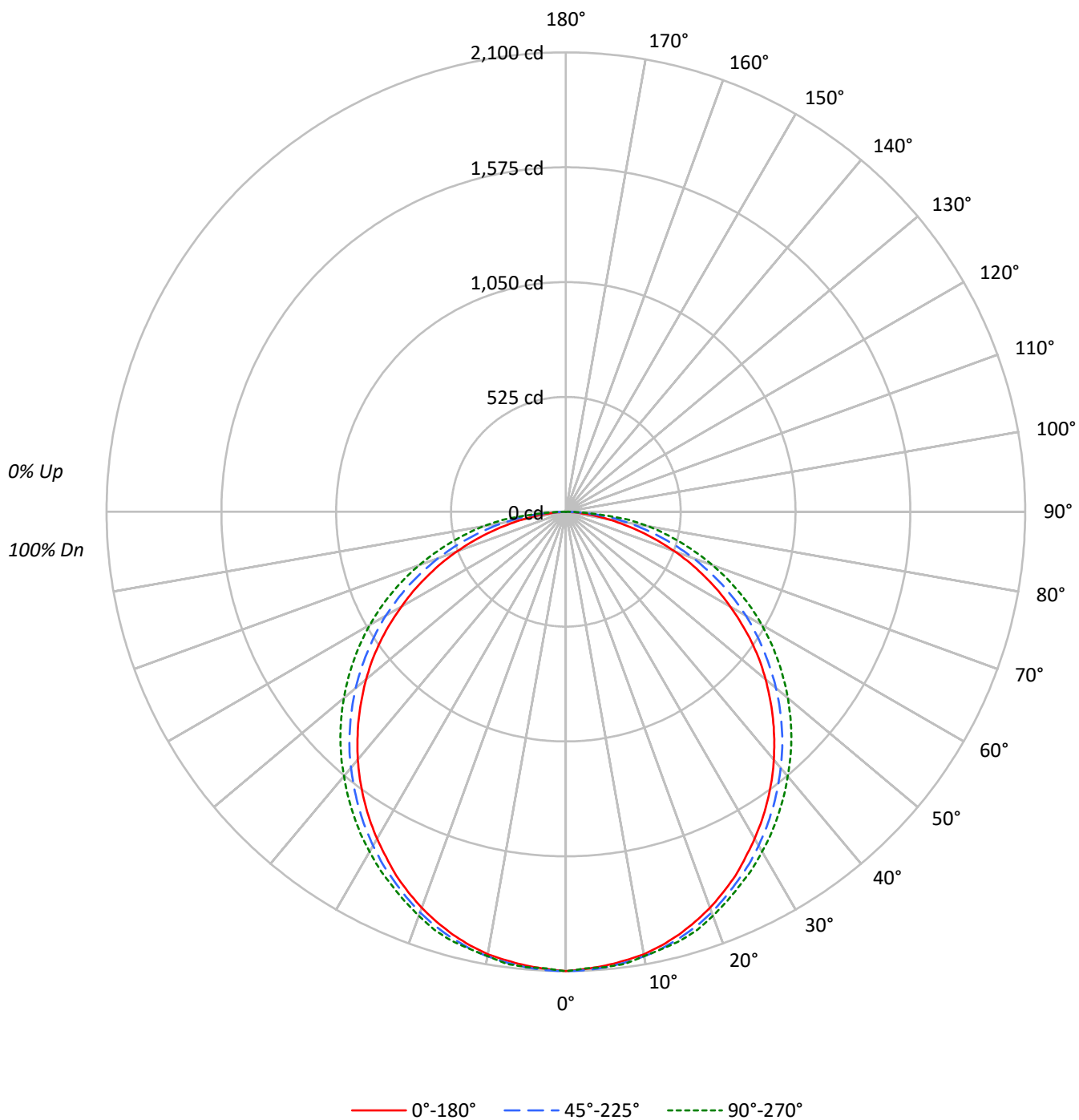
Lumens per Lamp: N/A
Luminaire Lumens: 6131.0 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

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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°	3216	3216	3216
5°	3202	3214	3212
10°	3195	3210	3208
15°	3172	3198	3217
20°	3140	3177	3204
25°	3101	3144	3183
30°	3053	3117	3174
35°	3008	3086	3164
40°	2959	3056	3155
45°	2902	3025	3159
50°	2840	2988	3157
55°	2766	2946	3161
60°	2662	2913	3169
65°	2540	2857	3179
70°	2368	2777	3193
75°	2110	2667	3225
80°	1745	2539	3382
85°	1135	2293	2956

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3489 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.6	3.2
10°-20°	568.7	9.3
20°-30°	857.7	14.0
30°-40°	1033.1	16.8
40°-50°	1078.9	17.6
50°-60°	990.8	16.2
60°-70°	780.4	12.7
70°-80°	478.8	7.8
80°-90°	144.1	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°	1625.0	26.5
0°-40°	2658.0	43.4
0°-60°	4727.7	77.1
0°-90°	6131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6131.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2100	2100	2100	2100	2100	
5°	2082	2085	2091	2097	2089	198
15°	2000	2004	2017	2029	2029	564
25°	1835	1839	1861	1883	1883	845
35°	1609	1617	1651	1684	1692	1006
45°	1340	1355	1396	1445	1458	1033
55°	1036	1055	1103	1165	1184	925
65°	701	725	788	854	877	693
75°	356	385	451	522	545	378
85°	65	89	130	166	168	84
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2100.0	2100.0	2100.0	2100.0	2100.0
2.5°	2092.0	2096.0	2097.3	2098.7	2089.3
5°	2082.5	2085.2	2090.6	2097.3	2089.3
7.5°	2069.1	2071.8	2078.5	2087.9	2083.9
10°	2054.3	2055.6	2063.7	2070.4	2062.4
12.5°	2030.1	2034.1	2043.5	2048.9	2046.2
15°	2000.5	2004.5	2016.6	2028.7	2028.7
17.5°	1965.5	1970.9	1985.7	2001.8	2003.2
20°	1926.5	1930.5	1949.4	1965.5	1965.5
22.5°	1882.1	1887.5	1906.3	1923.8	1926.5
25°	1835.0	1839.0	1860.6	1883.4	1883.4
27.5°	1779.8	1787.9	1814.8	1837.7	1843.1
30°	1726.0	1732.8	1762.4	1790.6	1794.6
32.5°	1669.5	1677.6	1708.5	1739.5	1746.2
35°	1609.0	1617.1	1650.7	1684.3	1692.4
37.5°	1545.8	1555.2	1590.2	1629.2	1637.2
40°	1479.8	1490.6	1528.3	1570.0	1578.1
42.5°	1409.9	1424.7	1465.0	1508.1	1520.2
45°	1339.9	1354.7	1396.4	1444.9	1458.3
47.5°	1265.9	1283.4	1326.5	1377.6	1392.4
50°	1191.9	1209.4	1253.8	1309.0	1325.1
52.5°	1116.6	1134.1	1179.8	1237.7	1255.2
55°	1035.9	1054.7	1103.2	1165.0	1183.9
57.5°	952.5	976.7	1027.8	1091.0	1109.9
60°	869.1	893.3	951.1	1013.0	1034.5
62.5°	787.0	809.9	869.1	935.0	957.9
65°	700.9	725.1	788.4	854.3	877.1
67.5°	616.2	640.4	703.6	772.2	796.4
70°	528.7	555.6	620.2	688.8	713.0
72.5°	441.3	469.5	535.4	605.4	628.3
75°	356.5	384.8	450.7	522.0	544.9
77.5°	273.1	304.0	368.6	441.3	462.8
80°	197.8	227.4	287.9	359.2	383.4
82.5°	126.5	152.0	212.6	279.8	297.3
85°	64.6	88.8	130.5	165.5	168.2
87.5°	20.2	28.3	43.0	64.6	65.9
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	17.51	17.83	16.37	18.03	16.73	18.34	18.66
	3H	17.29	18.80	17.67	19.13	19.49	18.48	19.99	18.86	20.32	20.68
	4H	17.91	19.33	18.31	19.68	20.06	19.37	20.79	19.77	21.14	21.52
	6H	18.32	19.64	18.73	20.01	20.40	20.15	21.47	20.56	21.84	22.23
	8H	18.43	19.69	18.85	20.08	20.48	20.47	21.74	20.90	22.12	22.52
	12H	18.48	19.69	18.91	20.07	20.50	20.69	21.90	21.11	22.28	22.71
4H	2H	16.31	17.73	16.71	18.08	18.45	16.96	18.38	17.35	18.72	19.10
	3H	18.29	19.48	18.70	19.88	20.28	19.31	20.51	19.72	20.90	21.30
	4H	19.02	20.11	19.45	20.52	20.96	20.36	21.45	20.79	21.86	22.30
	6H	19.55	20.50	20.00	20.94	21.40	21.31	22.27	21.77	22.71	23.16
	8H	19.70	20.59	20.16	21.03	21.50	21.71	22.60	22.17	23.05	23.51
	12H	19.78	20.59	20.26	21.06	21.53	21.99	22.79	22.47	23.27	23.73
8H	4H	19.48	20.37	19.94	20.82	21.28	20.65	21.54	21.11	21.98	22.45
	6H	20.14	20.89	20.64	21.37	21.85	21.76	22.51	22.26	22.99	23.47
	8H	20.35	21.02	20.86	21.53	22.01	22.28	22.94	22.78	23.45	23.93
	12H	20.49	21.09	21.00	21.57	22.13	22.66	23.25	23.17	23.74	24.30
12H	4H	19.57	20.38	20.05	20.85	21.32	20.68	21.48	21.15	21.95	22.42
	6H	20.28	20.95	20.78	21.45	21.93	21.81	22.48	22.32	22.98	23.47
	8H	20.55	21.15	21.06	21.63	22.19	22.39	22.98	22.89	23.47	24.03