

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: P1588439

Luminaire Tested: 24CZSP-62-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588439
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-62-L845
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 5500 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

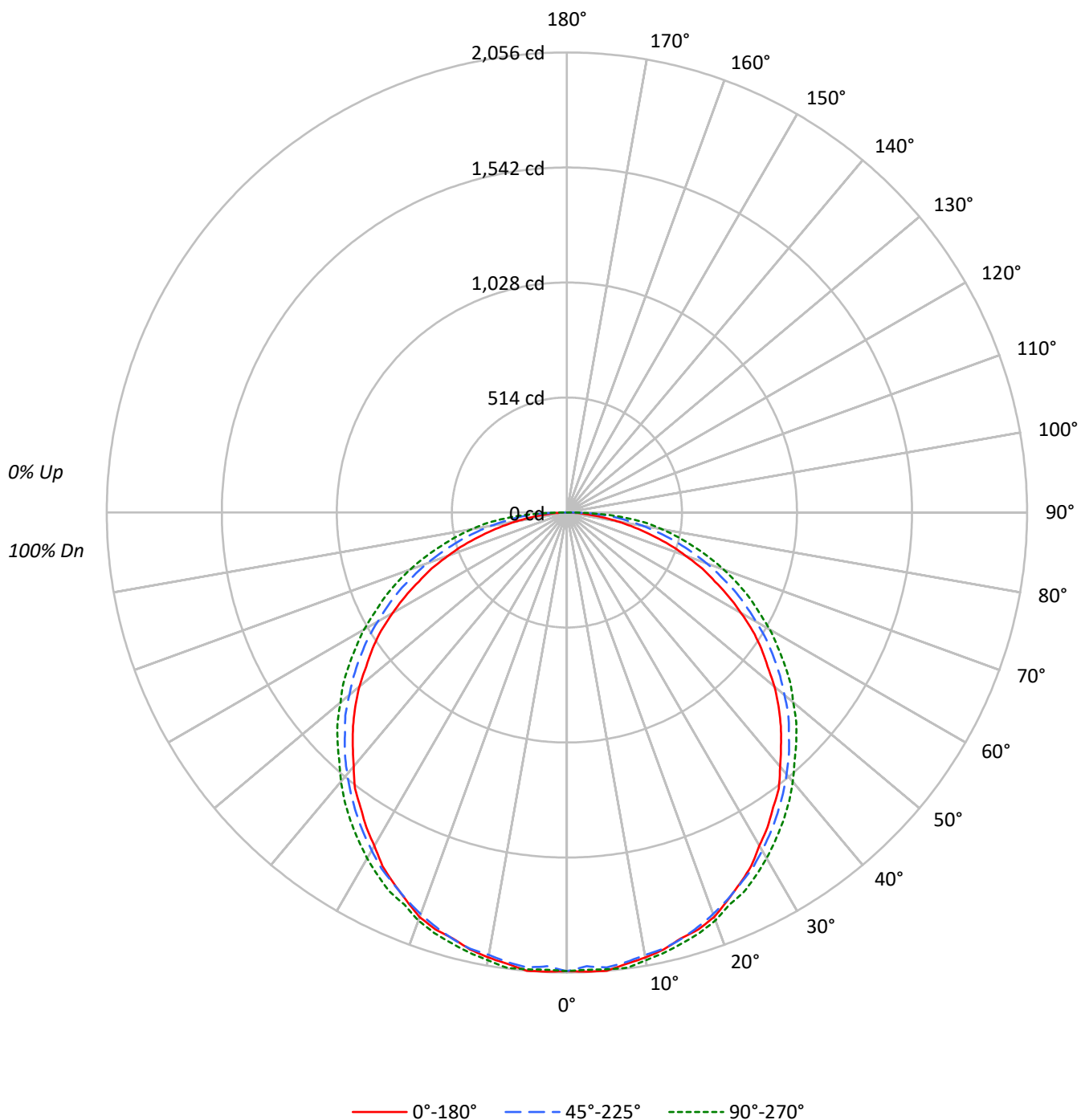
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6256.0 lumens
Efficiency: N/A
Efficacy: 140.6 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			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	98	94	105	100	96	92	96	93	89		92	89	87		89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	51		62	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3139	3139	3139
5°	3160	3137	3151
10°	3141	3122	3160
15°	3124	3129	3160
20°	3136	3114	3162
25°	3092	3097	3162
30°	3042	3084	3156
35°	3006	3068	3149
40°	2963	3052	3139
45°	2927	3038	3138
50°	2885	3024	3145
55°	2833	3013	3173
60°	2754	2992	3208
65°	2644	2992	3258
70°	2523	2972	3334
75°	2323	2979	3458
80°	2035	3039	3806
85°	1553	3502	4555

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 5049 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.6	3.1
10°-20°	559.4	8.9
20°-30°	849.8	13.6
30°-40°	1029.4	16.5
40°-50°	1083.0	17.3
50°-60°	1007.0	16.1
60°-70°	810.8	13.0
70°-80°	525.2	8.4
80°-90°	197.0	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°	1603.8	25.6
0°-40°	2633.2	42.1
0°-60°	4723.1	75.5
0°-90°	6256.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6256.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2050	2050	2050	2050	2050	
5°	2056	2053	2041	2053	2050	195
15°	1970	1978	1973	1997	1993	558
25°	1829	1828	1832	1864	1871	843
35°	1608	1620	1641	1669	1684	1007
45°	1351	1369	1402	1432	1449	1042
55°	1061	1088	1128	1173	1188	946
65°	730	763	826	875	899	725
75°	392	432	503	562	584	417
85°	88	130	199	249	259	108
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2049.6	2049.6	2049.6	2049.6	2049.6
2.5°	2054.1	2054.1	2030.1	2055.6	2045.1
5°	2055.6	2052.6	2040.6	2052.6	2049.6
7.5°	2034.6	2037.6	2027.1	2042.1	2052.6
10°	2019.6	2022.6	2007.7	2031.6	2031.6
12.5°	2000.2	2003.2	1997.2	2019.6	2015.1
15°	1970.2	1977.7	1973.2	1997.2	1992.7
17.5°	1953.7	1947.7	1943.2	1961.2	1970.2
20°	1923.8	1910.3	1910.3	1934.2	1940.2
22.5°	1875.8	1871.3	1872.8	1902.8	1896.8
25°	1829.4	1827.9	1832.4	1863.8	1871.3
27.5°	1782.9	1779.9	1793.4	1823.4	1829.4
30°	1720.0	1726.0	1744.0	1776.9	1784.4
32.5°	1667.6	1678.0	1694.5	1726.0	1735.0
35°	1607.6	1619.6	1640.6	1669.1	1684.0
37.5°	1555.2	1562.7	1585.1	1612.1	1630.1
40°	1481.8	1501.2	1526.7	1565.7	1570.2
42.5°	1415.8	1435.3	1468.3	1510.2	1505.7
45°	1351.4	1369.4	1402.4	1432.3	1448.8
47.5°	1282.5	1299.0	1342.4	1378.4	1390.4
50°	1210.6	1231.6	1269.0	1306.5	1320.0
52.5°	1129.7	1152.2	1200.1	1240.6	1260.0
55°	1060.8	1087.7	1128.2	1173.1	1188.1
57.5°	984.4	1006.8	1056.3	1101.2	1116.2
60°	899.0	925.9	976.9	1024.8	1047.3
62.5°	816.5	846.5	900.4	949.9	967.9
65°	729.6	762.6	825.5	875.0	899.0
67.5°	654.7	681.7	743.1	798.6	824.0
70°	563.3	599.3	663.7	725.2	744.6
72.5°	482.4	513.9	581.3	642.7	666.7
75°	392.5	431.5	503.4	561.8	584.3
77.5°	310.1	350.6	422.5	483.9	509.4
80°	230.7	269.7	344.6	407.5	431.5
82.5°	155.8	194.8	269.7	331.1	358.1
85°	88.4	130.3	199.3	248.7	259.2
87.5°	39.0	74.9	112.4	134.8	143.8
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	15.66	17.34	16.02	17.65	17.97	16.33	18.01	16.70	18.33	18.64
	3H	17.51	19.04	17.89	19.37	19.73	18.55	20.08	18.93	20.41	20.76
	4H	18.20	19.64	18.60	19.99	20.36	19.51	20.96	19.91	21.31	21.68
	6H	18.69	20.03	19.10	20.40	20.79	20.41	21.75	20.82	22.11	22.50
	8H	18.84	20.12	19.26	20.51	20.91	20.81	22.09	21.23	22.48	22.88
	12H	18.93	20.16	19.36	20.54	20.97	21.17	22.40	21.60	22.78	23.21
4H	2H	16.45	17.90	16.85	18.24	18.62	16.97	18.42	17.37	18.76	19.14
	3H	18.54	19.76	18.95	20.16	20.56	19.43	20.65	19.84	21.05	21.45
	4H	19.36	20.47	19.79	20.88	21.32	20.56	21.67	20.99	22.08	22.52
	6H	19.98	20.96	20.44	21.40	21.85	21.63	22.61	22.08	23.05	23.50
	8H	20.18	21.10	20.64	21.54	22.00	22.12	23.04	22.58	23.48	23.94
	12H	20.32	21.14	20.79	21.62	22.08	22.57	23.40	23.05	23.87	24.34
8H	4H	19.87	20.78	20.33	21.22	21.69	20.90	21.82	21.36	22.26	22.72
	6H	20.65	21.42	21.14	21.91	22.38	22.15	22.92	22.64	23.41	23.88
	8H	20.94	21.63	21.44	22.13	22.61	22.78	23.47	23.28	23.97	24.45
	12H	21.15	21.77	21.66	22.26	22.81	23.39	24.00	23.89	24.49	25.05
12H	4H	19.98	20.80	20.45	21.28	21.74	20.94	21.77	21.42	22.24	22.71
	6H	20.82	21.51	21.33	22.02	22.50	22.23	22.92	22.73	23.42	23.91
	8H	21.19	21.80	21.69	22.29	22.85	22.93	23.55	23.44	24.03	24.59