

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: P1588772

Luminaire Tested: 24CZSP-A-62-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588772
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-A-62-L830-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 5500 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

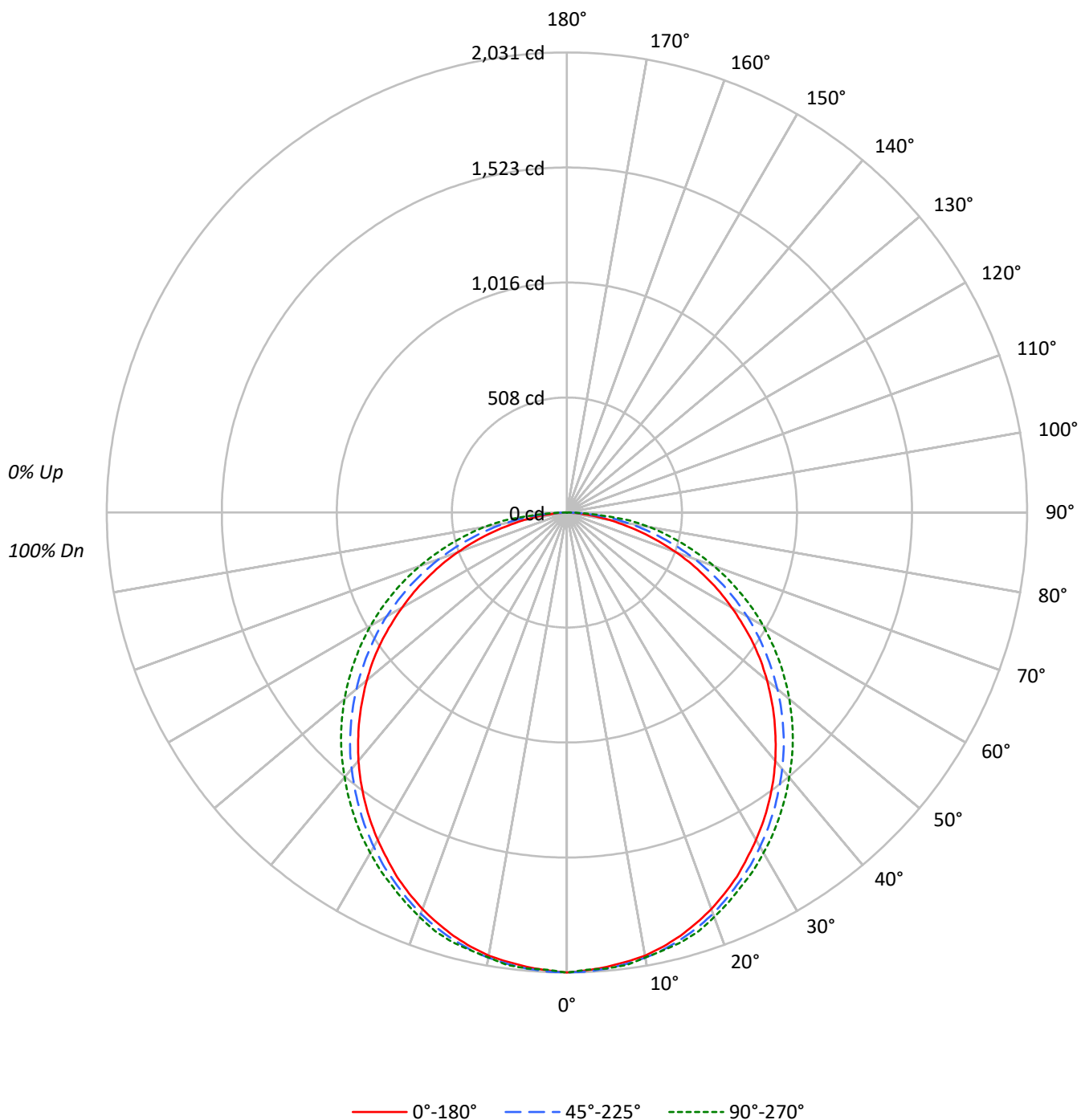
Lumens per Lamp: N/A
Luminaire Lumens: 5929.0 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	3110	3110	3110
5°	3096	3108	3106
10°	3090	3104	3102
15°	3068	3092	3111
20°	3037	3073	3098
25°	2999	3041	3078
30°	2952	3014	3069
35°	2909	2985	3060
40°	2861	2955	3051
45°	2807	2925	3055
50°	2747	2889	3054
55°	2675	2849	3057
60°	2574	2818	3065
65°	2456	2763	3074
70°	2290	2686	3088
75°	2040	2579	3118
80°	1686	2456	3271
85°	1097	2218	2857

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3374 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.1	3.2
10°-20°	550.0	9.3
20°-30°	829.4	14.0
30°-40°	999.0	16.8
40°-50°	1043.3	17.6
50°-60°	958.2	16.2
60°-70°	754.7	12.7
70°-80°	463.0	7.8
80°-90°	139.3	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°	1571.4	26.5
0°-40°	2570.5	43.4
0°-60°	4572.0	77.1
0°-90°	5929.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5929.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2031	2031	2031	2031	2031	
5°	2014	2016	2022	2028	2020	191
15°	1935	1938	1950	1962	1962	546
25°	1774	1778	1799	1821	1821	817
35°	1556	1564	1596	1629	1637	973
45°	1296	1310	1350	1397	1410	999
55°	1002	1020	1067	1127	1145	894
65°	678	701	762	826	848	671
75°	345	372	436	505	527	366
85°	62	86	126	160	163	82
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2030.8	2030.8	2030.8	2030.8	2030.8
2.5°	2023.0	2026.9	2028.2	2029.5	2020.4
5°	2013.9	2016.5	2021.7	2028.2	2020.4
7.5°	2000.9	2003.5	2010.0	2019.1	2015.2
10°	1986.6	1987.9	1995.7	2002.2	1994.4
12.5°	1963.2	1967.1	1976.2	1981.4	1978.8
15°	1934.6	1938.5	1950.2	1961.9	1961.9
17.5°	1900.7	1905.9	1920.3	1935.9	1937.2
20°	1863.0	1866.9	1885.1	1900.7	1900.7
22.5°	1820.1	1825.3	1843.5	1860.4	1863.0
25°	1774.5	1778.4	1799.3	1821.4	1821.4
27.5°	1721.2	1729.0	1755.0	1777.1	1782.4
30°	1669.2	1675.7	1704.3	1731.6	1735.5
32.5°	1614.5	1622.3	1652.3	1682.2	1688.7
35°	1556.0	1563.8	1596.3	1628.8	1636.6
37.5°	1494.8	1503.9	1537.8	1575.5	1583.3
40°	1431.1	1441.5	1477.9	1518.3	1526.1
42.5°	1363.4	1377.7	1416.8	1458.4	1470.1
45°	1295.8	1310.1	1350.4	1397.3	1410.3
47.5°	1224.2	1241.1	1282.8	1332.2	1346.5
50°	1152.7	1169.6	1212.5	1265.9	1281.5
52.5°	1079.8	1096.7	1141.0	1196.9	1213.8
55°	1001.8	1020.0	1066.8	1126.7	1144.9
57.5°	921.1	944.5	994.0	1055.1	1073.3
60°	840.4	863.9	919.8	979.6	1000.5
62.5°	761.1	783.2	840.4	904.2	926.3
65°	677.8	701.2	762.4	826.1	848.2
67.5°	595.9	619.3	680.4	746.8	770.2
70°	511.3	537.3	599.8	666.1	689.5
72.5°	426.7	454.0	517.8	585.4	607.6
75°	344.8	372.1	435.8	504.8	526.9
77.5°	264.1	294.0	356.5	426.7	447.5
80°	191.2	219.9	278.4	347.4	370.8
82.5°	122.3	147.0	205.6	270.6	287.5
85°	62.4	85.9	126.2	160.0	162.6
87.5°	19.5	27.3	41.6	62.4	63.7
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	15.42	17.08	15.79	17.40	17.71	16.25	17.91	16.62	18.23	18.54
	3H	17.18	18.68	17.55	19.01	19.37	18.37	19.87	18.74	20.20	20.56
	4H	17.80	19.22	18.19	19.56	19.94	19.26	20.68	19.65	21.03	21.40
	6H	18.21	19.53	18.62	19.89	20.28	20.04	21.36	20.45	21.72	22.11
	8H	18.31	19.58	18.74	19.96	20.36	20.36	21.62	20.78	22.01	22.41
	12H	18.37	19.58	18.79	19.96	20.39	20.57	21.78	21.00	22.16	22.59
4H	2H	16.19	17.61	16.59	17.96	18.34	16.84	18.26	17.24	18.61	18.98
	3H	18.17	19.37	18.58	19.76	20.16	19.19	20.39	19.60	20.79	21.19
	4H	18.91	19.99	19.34	20.41	20.84	20.25	21.33	20.68	21.74	22.18
	6H	19.44	20.39	19.89	20.83	21.28	21.20	22.15	21.65	22.59	23.04
	8H	19.58	20.47	20.04	20.91	21.38	21.60	22.49	22.05	22.93	23.39
	12H	19.67	20.47	20.14	20.94	21.41	21.87	22.68	22.35	23.15	23.62
8H	4H	19.37	20.26	19.82	20.70	21.16	20.54	21.43	20.99	21.87	22.33
	6H	20.03	20.77	20.52	21.26	21.73	21.65	22.39	22.14	22.88	23.35
	8H	20.24	20.91	20.74	21.41	21.90	22.16	22.83	22.67	23.33	23.82
	12H	20.38	20.97	20.88	21.46	22.02	22.54	23.14	23.05	23.63	24.18
12H	4H	19.46	20.26	19.93	20.73	21.20	20.56	21.36	21.04	21.84	22.31
	6H	20.16	20.83	20.67	21.33	21.82	21.69	22.36	22.20	22.87	23.35
	8H	20.44	21.03	20.94	21.52	22.08	22.27	22.86	22.78	23.35	23.91