

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: P1588777

Luminaire Tested: 24CZSP-A-62-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588777
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-L840
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 5500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

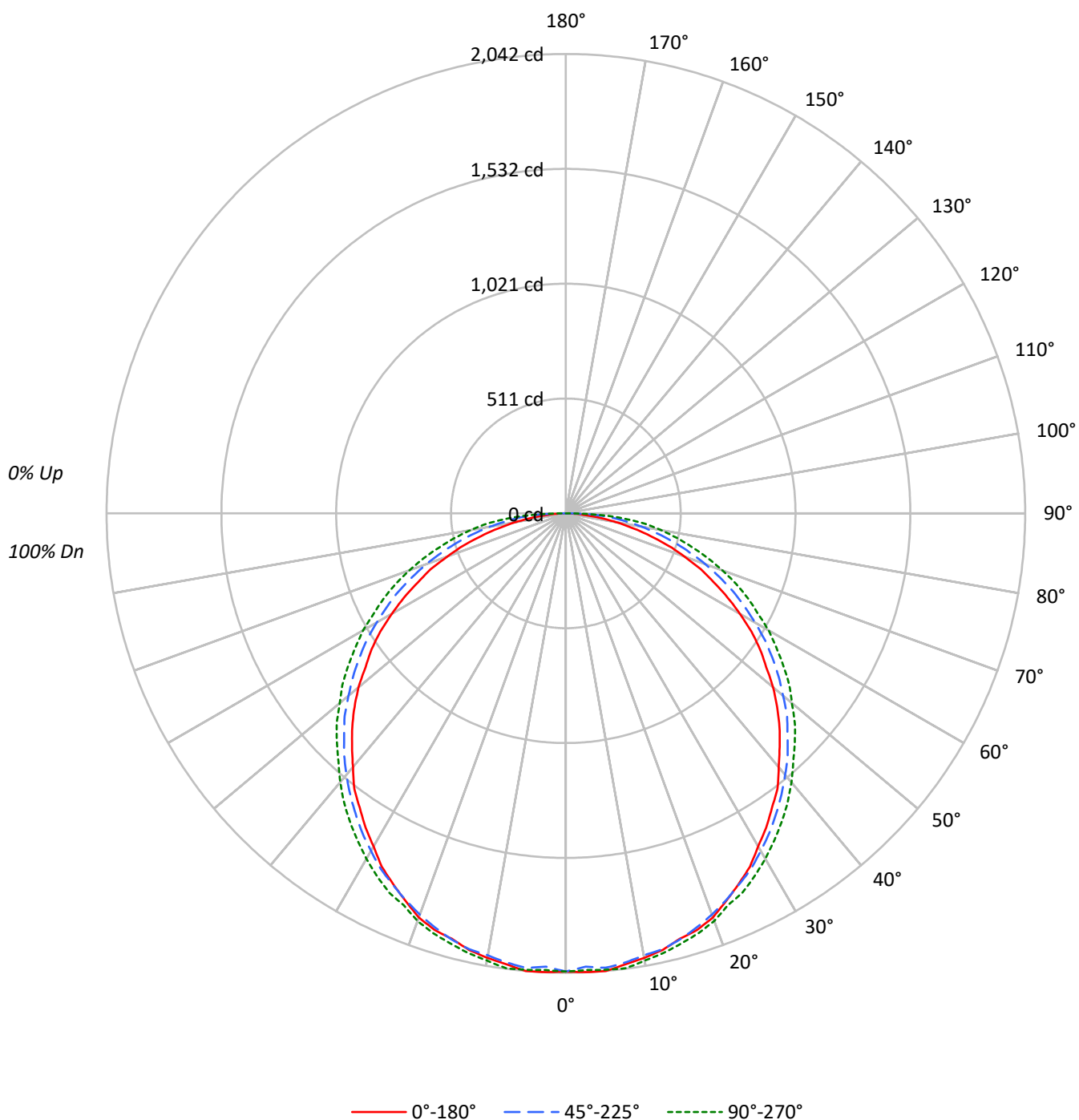
Lumens per Lamp: N/A
Luminaire Lumens: 6216.0 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3119	3119	3119
5°	3140	3117	3131
10°	3121	3102	3139
15°	3104	3109	3139
20°	3116	3094	3142
25°	3072	3077	3142
30°	3022	3065	3136
35°	2987	3048	3129
40°	2944	3033	3119
45°	2909	3018	3118
50°	2866	3004	3125
55°	2815	2993	3152
60°	2736	2973	3188
65°	2627	2973	3237
70°	2506	2953	3313
75°	2308	2960	3436
80°	2022	3020	3781
85°	1543	3480	4525

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 5018 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.4	3.1
10°-20°	555.8	8.9
20°-30°	844.3	13.6
30°-40°	1022.8	16.5
40°-50°	1076.0	17.3
50°-60°	1000.5	16.1
60°-70°	805.6	13.0
70°-80°	521.8	8.4
80°-90°	195.7	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°	1593.5	25.6
0°-40°	2616.3	42.1
0°-60°	4692.9	75.5
0°-90°	6216.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6216.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2036	2036	2036	2036	2036	
5°	2042	2040	2028	2040	2036	193
15°	1958	1965	1961	1984	1980	555
25°	1818	1816	1821	1852	1859	838
35°	1597	1609	1630	1658	1673	1001
45°	1343	1361	1393	1423	1440	1035
55°	1054	1081	1121	1166	1180	940
65°	725	758	820	869	893	721
75°	390	429	500	558	581	414
85°	88	130	198	247	258	108
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2036.5	2036.5	2036.5	2036.5	2036.5
2.5°	2041.0	2041.0	2017.1	2042.5	2032.0
5°	2042.5	2039.5	2027.6	2039.5	2036.5
7.5°	2021.6	2024.6	2014.2	2029.1	2039.5
10°	2006.7	2009.7	1994.8	2018.6	2018.6
12.5°	1987.4	1990.4	1984.4	2006.7	2002.3
15°	1957.6	1965.0	1960.6	1984.4	1979.9
17.5°	1941.2	1935.3	1930.8	1948.7	1957.6
20°	1911.5	1898.1	1898.1	1921.9	1927.8
22.5°	1863.8	1859.4	1860.8	1890.6	1884.7
25°	1817.7	1816.2	1820.6	1851.9	1859.4
27.5°	1771.5	1768.5	1781.9	1811.7	1817.7
30°	1709.0	1714.9	1732.8	1765.6	1773.0
32.5°	1656.9	1667.3	1683.7	1714.9	1723.9
35°	1597.3	1609.3	1630.1	1658.4	1673.3
37.5°	1545.2	1552.7	1575.0	1601.8	1619.7
40°	1472.3	1491.6	1517.0	1555.7	1560.1
42.5°	1406.8	1426.1	1458.9	1500.6	1496.1
45°	1342.8	1360.6	1393.4	1423.2	1439.5
47.5°	1274.3	1290.7	1333.8	1369.6	1381.5
50°	1202.8	1223.7	1260.9	1298.1	1311.5
52.5°	1122.5	1144.8	1192.4	1232.6	1252.0
55°	1054.0	1080.8	1121.0	1165.6	1180.5
57.5°	978.1	1000.4	1049.5	1094.2	1109.1
60°	893.2	920.0	970.6	1018.3	1040.6
62.5°	811.3	841.1	894.7	943.8	961.7
65°	725.0	757.7	820.3	869.4	893.2
67.5°	650.5	677.3	738.4	793.5	818.8
70°	559.7	595.5	659.5	720.5	739.9
72.5°	479.4	510.6	577.6	638.6	662.5
75°	390.0	428.7	500.2	558.3	580.6
77.5°	308.2	348.3	419.8	480.8	506.1
80°	229.3	268.0	342.4	404.9	428.7
82.5°	154.8	193.5	268.0	329.0	355.8
85°	87.8	129.5	198.0	247.1	257.5
87.5°	38.7	74.4	111.7	134.0	142.9
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	15.64	17.32	16.00	17.63	17.95	16.31	17.99	16.68	18.31	18.62
	3H	17.49	19.02	17.87	19.34	19.70	18.53	20.06	18.91	20.38	20.74
	4H	18.18	19.62	18.57	19.97	20.34	19.49	20.94	19.89	21.28	21.66
	6H	18.67	20.01	19.08	20.37	20.76	20.38	21.73	20.79	22.09	22.48
	8H	18.82	20.10	19.24	20.49	20.89	20.79	22.07	21.21	22.46	22.86
	12H	18.91	20.14	19.33	20.52	20.95	21.15	22.38	21.58	22.76	23.19
4H	2H	16.43	17.87	16.83	18.22	18.60	16.95	18.39	17.35	18.74	19.11
	3H	18.52	19.74	18.93	20.13	20.53	19.41	20.63	19.82	21.03	21.43
	4H	19.34	20.45	19.77	20.86	21.29	20.54	21.65	20.97	22.06	22.49
	6H	19.96	20.94	20.41	21.38	21.83	21.61	22.58	22.06	23.02	23.48
	8H	20.16	21.08	20.62	21.52	21.98	22.10	23.01	22.56	23.45	23.92
	12H	20.29	21.12	20.77	21.59	22.06	22.55	23.38	23.03	23.85	24.32
8H	4H	19.85	20.76	20.30	21.20	21.67	20.88	21.80	21.34	22.24	22.70
	6H	20.63	21.40	21.12	21.88	22.36	22.13	22.90	22.62	23.38	23.86
	8H	20.91	21.60	21.42	22.11	22.59	22.75	23.44	23.26	23.95	24.43
	12H	21.13	21.74	21.64	22.23	22.79	23.36	23.98	23.87	24.47	25.02
12H	4H	19.95	20.78	20.43	21.25	21.72	20.92	21.75	21.40	22.22	22.69
	6H	20.80	21.49	21.30	21.99	22.48	22.20	22.90	22.71	23.40	23.88
	8H	21.17	21.78	21.67	22.27	22.83	22.91	23.52	23.41	24.01	24.57