

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: P1588783

Luminaire Tested: 24CZSP-A-62-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588783
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-L930
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 5500 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

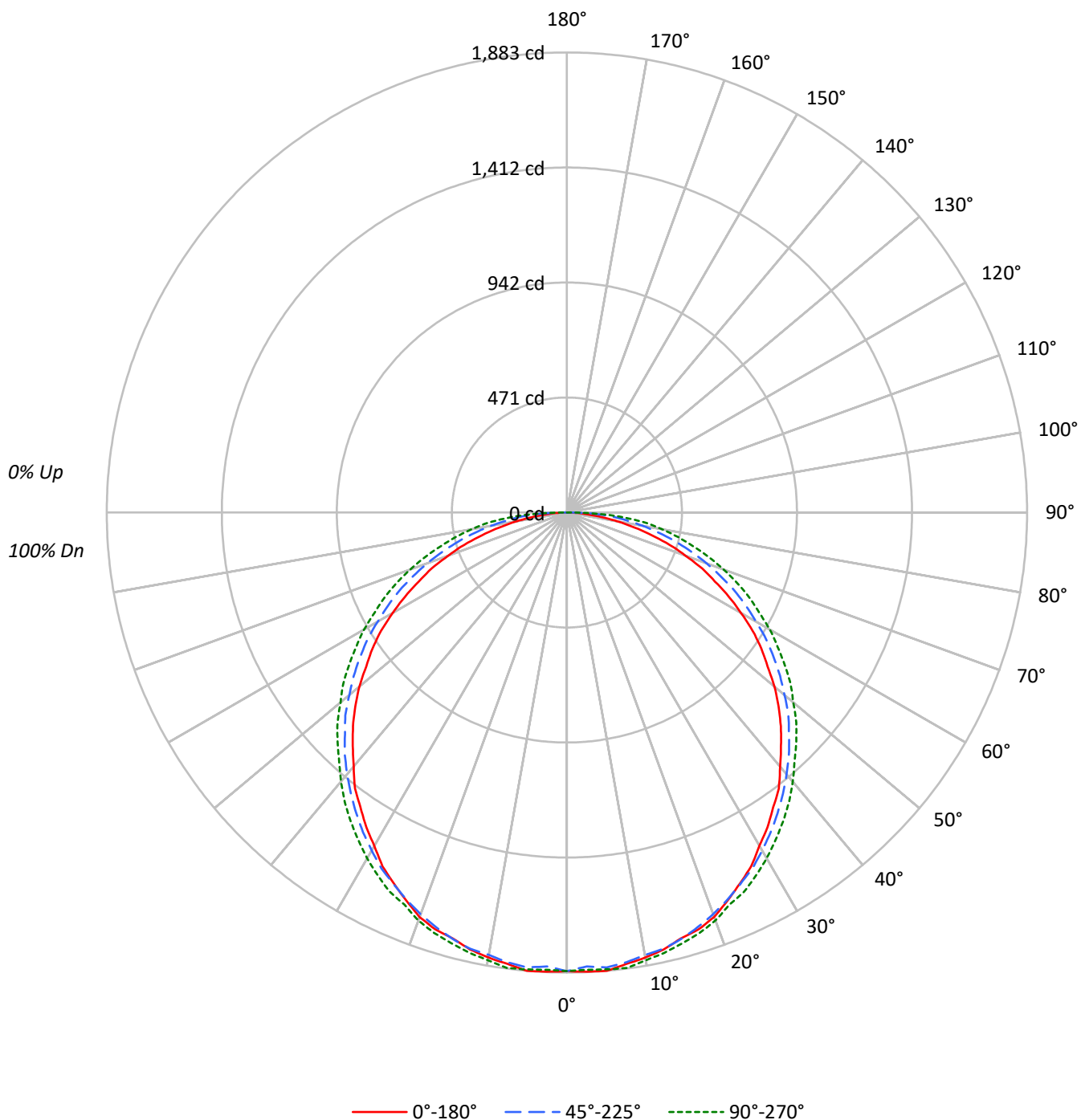
Lumens per Lamp: N/A
Luminaire Lumens: 5730.0 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	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	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°	2875	2875	2875
5°	2895	2874	2886
10°	2877	2860	2894
15°	2861	2866	2894
20°	2872	2852	2897
25°	2832	2836	2897
30°	2786	2825	2891
35°	2753	2810	2884
40°	2714	2796	2875
45°	2681	2782	2874
50°	2642	2770	2881
55°	2594	2759	2906
60°	2522	2741	2938
65°	2422	2740	2984
70°	2311	2722	3054
75°	2127	2729	3167
80°	1864	2784	3486
85°	1423	3207	4172

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 4624 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.3	3.1
10°-20°	512.4	8.9
20°-30°	778.3	13.6
30°-40°	942.8	16.5
40°-50°	991.9	17.3
50°-60°	922.3	16.1
60°-70°	742.6	13.0
70°-80°	481.0	8.4
80°-90°	180.4	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°	1468.9	25.6
0°-40°	2411.8	42.1
0°-60°	4326.0	75.5
0°-90°	5730.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5730.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1877	1877	1877	1877	1877	
5°	1883	1880	1869	1880	1877	178
15°	1804	1811	1807	1829	1825	511
25°	1676	1674	1678	1707	1714	772
35°	1472	1483	1503	1529	1542	922
45°	1238	1254	1284	1312	1327	954
55°	972	996	1033	1074	1088	867
65°	668	698	756	801	823	665
75°	360	395	461	515	535	382
85°	81	119	182	228	237	99
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1877.3	1877.3	1877.3	1877.3	1877.3
2.5°	1881.4	1881.4	1859.4	1882.8	1873.2
5°	1882.8	1880.0	1869.0	1880.0	1877.3
7.5°	1863.6	1866.3	1856.7	1870.4	1880.0
10°	1849.8	1852.6	1838.9	1860.8	1860.8
12.5°	1832.0	1834.7	1829.2	1849.8	1845.7
15°	1804.5	1811.4	1807.3	1829.2	1825.1
17.5°	1789.5	1784.0	1779.8	1796.3	1804.5
20°	1762.0	1749.7	1749.7	1771.6	1777.1
22.5°	1718.1	1714.0	1715.3	1742.8	1737.3
25°	1675.6	1674.2	1678.3	1707.1	1714.0
27.5°	1633.0	1630.3	1642.6	1670.1	1675.6
30°	1575.4	1580.9	1597.3	1627.5	1634.4
32.5°	1527.3	1537.0	1552.0	1580.9	1589.1
35°	1472.5	1483.4	1502.6	1528.7	1542.4
37.5°	1424.4	1431.3	1451.9	1476.6	1493.0
40°	1357.2	1375.0	1398.4	1434.0	1438.1
42.5°	1296.8	1314.6	1344.8	1383.3	1379.1
45°	1237.8	1254.3	1284.5	1311.9	1327.0
47.5°	1174.7	1189.8	1229.6	1262.5	1273.5
50°	1108.8	1128.0	1162.3	1196.6	1209.0
52.5°	1034.7	1055.3	1099.2	1136.2	1154.1
55°	971.6	996.3	1033.3	1074.5	1088.2
57.5°	901.6	922.2	967.5	1008.6	1022.3
60°	823.4	848.1	894.7	938.6	959.2
62.5°	747.9	775.3	824.7	870.0	886.5
65°	668.3	698.5	756.1	801.4	823.4
67.5°	599.7	624.4	680.7	731.4	754.8
70°	516.0	548.9	607.9	664.2	682.0
72.5°	441.9	470.7	532.4	588.7	610.7
75°	359.5	395.2	461.1	514.6	535.2
77.5°	284.1	321.1	387.0	443.2	466.6
80°	211.3	247.0	315.6	373.3	395.2
82.5°	142.7	178.4	247.0	303.3	328.0
85°	81.0	119.4	182.5	227.8	237.4
87.5°	35.7	68.6	102.9	123.5	131.7
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	15.35	17.03	15.72	17.35	17.66	16.03	17.71	16.39	18.02	18.34
	3H	17.21	18.74	17.58	19.06	19.42	18.25	19.77	18.62	20.10	20.46
	4H	17.89	19.34	18.29	19.69	20.06	19.21	20.65	19.61	21.00	21.37
	6H	18.39	19.73	18.80	20.09	20.48	20.10	21.44	20.51	21.81	22.20
	8H	18.53	19.82	18.96	20.21	20.60	20.51	21.79	20.93	22.18	22.58
	12H	18.62	19.86	19.05	20.24	20.67	20.86	22.10	21.29	22.48	22.91
4H	2H	16.15	17.59	16.54	17.94	18.31	16.67	18.11	17.06	18.46	18.83
	3H	18.23	19.46	18.64	19.85	20.25	19.13	20.35	19.54	20.74	21.14
	4H	19.05	20.16	19.48	20.58	21.01	20.26	21.37	20.69	21.78	22.21
	6H	19.68	20.66	20.13	21.09	21.55	21.33	22.30	21.78	22.74	23.19
	8H	19.88	20.79	20.33	21.23	21.70	21.82	22.73	22.27	23.17	23.64
	12H	20.01	20.84	20.49	21.31	21.78	22.27	23.10	22.75	23.57	24.04
8H	4H	19.56	20.48	20.02	20.92	21.38	20.60	21.51	21.06	21.95	22.42
	6H	20.35	21.12	20.84	21.60	22.07	21.85	22.62	22.34	23.10	23.57
	8H	20.63	21.32	21.14	21.83	22.31	22.47	23.16	22.98	23.67	24.15
	12H	20.85	21.46	21.35	21.95	22.51	23.08	23.69	23.59	24.18	24.74
12H	4H	19.67	20.50	20.15	20.97	21.44	20.64	21.46	21.11	21.94	22.40
	6H	20.51	21.21	21.02	21.71	22.19	21.92	22.61	22.43	23.12	23.60
	8H	20.88	21.50	21.39	21.99	22.54	22.63	23.24	23.13	23.73	24.29