

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: P1589929

Luminaire Tested: 24CZSP-SB-62-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-SB-62-L945
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 5500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

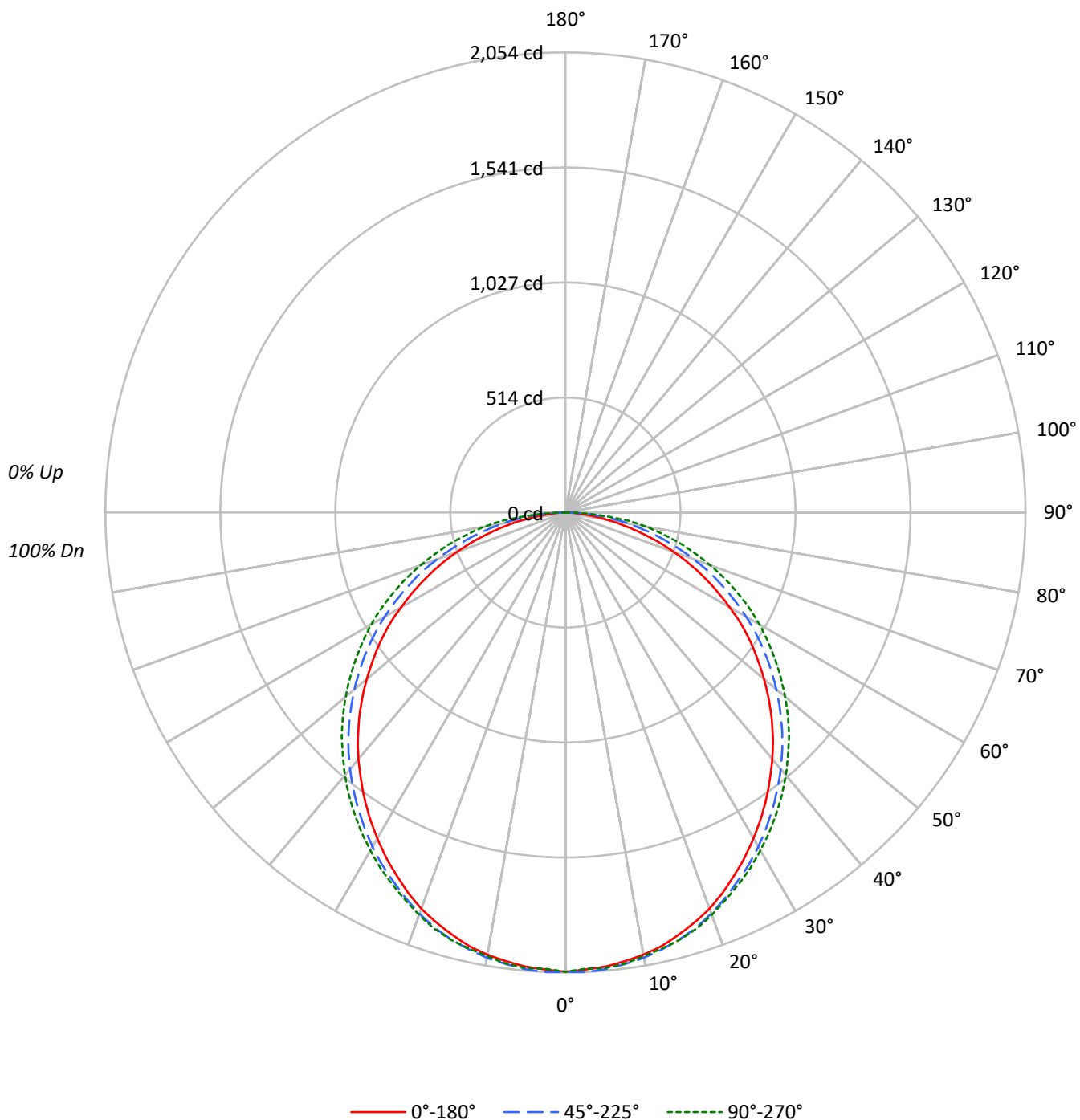
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5984.0 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
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: 28.75 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	68		
3	89	79	70	63	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°	3141	3141	3141
5°	3129	3147	3139
10°	3118	3140	3128
15°	3095	3127	3131
20°	3068	3105	3115
25°	3018	3071	3093
30°	2970	3046	3080
35°	2922	3017	3069
40°	2874	2990	3061
45°	2820	2963	3059
50°	2758	2930	3051
55°	2695	2898	3051
60°	2595	2856	3069
65°	2474	2800	3071
70°	2308	2722	3080
75°	2053	2623	3133
80°	1686	2514	3251
85°	1112	2358	2938

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3329 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.0	3.2
10°-20°	555.2	9.3
20°-30°	836.8	14.0
30°-40°	1007.7	16.8
40°-50°	1052.8	17.6
50°-60°	967.2	16.2
60°-70°	761.7	12.7
70°-80°	467.0	7.8
80°-90°	141.6	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°	1586.0	26.5
0°-40°	2593.7	43.3
0°-60°	4613.7	77.1
0°-90°	5984.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5984.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2050	2050	2050	2050	2050	
5°	2035	2039	2047	2044	2042	193
15°	1952	1959	1972	1980	1974	551
25°	1786	1797	1817	1836	1830	823
35°	1563	1583	1614	1643	1641	978
45°	1302	1330	1368	1406	1412	1004
55°	1009	1038	1085	1132	1142	901
65°	683	718	773	824	847	675
75°	347	388	443	496	529	369
85°	63	94	134	149	167	81
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2050.5	2050.5	2050.5	2050.5	2050.5
2.5°	2042.9	2047.9	2054.3	2044.1	2039.1
5°	2035.3	2039.1	2046.7	2044.1	2041.6
7.5°	2021.3	2023.9	2034.0	2034.0	2031.5
10°	2004.9	2009.9	2018.8	2017.5	2011.2
12.5°	1983.4	1987.2	1997.3	1997.3	1993.5
15°	1951.7	1959.3	1972.0	1979.6	1974.5
17.5°	1918.8	1926.4	1942.8	1950.4	1947.9
20°	1882.0	1888.4	1904.8	1916.2	1911.2
22.5°	1836.4	1844.0	1863.0	1875.7	1870.6
25°	1785.8	1797.2	1817.4	1836.4	1830.1
27.5°	1735.1	1747.8	1773.1	1792.1	1789.6
30°	1679.4	1695.9	1722.5	1746.5	1741.4
32.5°	1622.4	1641.4	1669.3	1694.6	1693.3
35°	1562.9	1583.1	1613.5	1642.7	1641.4
37.5°	1499.5	1523.6	1555.3	1586.9	1588.2
40°	1437.5	1460.3	1495.7	1529.9	1531.2
42.5°	1371.6	1395.7	1433.7	1469.1	1470.4
45°	1302.0	1329.8	1367.8	1405.8	1412.2
47.5°	1231.0	1260.2	1299.4	1340.0	1347.6
50°	1157.6	1188.0	1229.8	1272.8	1280.4
52.5°	1082.9	1114.5	1157.6	1200.7	1212.0
55°	1009.4	1038.5	1085.4	1132.3	1142.4
57.5°	932.2	958.7	1009.4	1058.8	1071.5
60°	847.3	880.2	932.2	981.5	1001.8
62.5°	765.0	800.4	853.6	903.0	925.8
65°	682.6	718.1	772.6	824.5	847.3
67.5°	599.1	635.8	694.0	743.4	768.8
70°	515.5	552.2	607.9	661.1	687.7
72.5°	431.9	471.1	525.6	580.1	606.7
75°	347.0	387.6	443.3	496.5	529.4
77.5°	267.2	306.5	362.2	416.7	444.5
80°	191.2	230.5	285.0	339.4	368.6
82.5°	121.6	158.3	211.5	257.1	283.7
85°	63.3	93.7	134.2	149.4	167.2
87.5°	19.0	36.7	51.9	58.3	72.2
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	15.5	17.2	15.9	17.5	17.8	16.2	17.9	16.6	18.2	18.5
	3H	17.3	18.8	17.6	19.1	19.4	18.3	19.8	18.7	20.2	20.5
	4H	17.9	19.3	18.3	19.6	20.0	19.2	20.6	19.6	21.0	21.4
	6H	18.3	19.6	18.7	20.0	20.4	20.0	21.3	20.4	21.7	22.1
	8H	18.4	19.7	18.8	20.0	20.4	20.3	21.6	20.7	21.9	22.3
	12H	18.4	19.7	18.9	20.0	20.5	20.5	21.7	20.9	22.1	22.5
4H	2H	16.3	17.7	16.7	18.0	18.4	16.8	18.3	17.2	18.6	19.0
	3H	18.3	19.5	18.7	19.8	20.2	19.2	20.4	19.6	20.8	21.2
	4H	19.0	20.1	19.4	20.5	20.9	20.2	21.3	20.6	21.7	22.1
	6H	19.5	20.5	20.0	20.9	21.4	21.1	22.1	21.6	22.5	23.0
	8H	19.7	20.6	20.1	21.0	21.5	21.5	22.4	22.0	22.9	23.3
	12H	19.8	20.6	20.3	21.1	21.5	21.8	22.6	22.3	23.1	23.5
8H	4H	19.5	20.4	19.9	20.8	21.3	20.5	21.4	21.0	21.8	22.3
	6H	20.1	20.9	20.6	21.4	21.8	21.6	22.3	22.1	22.8	23.3
	8H	20.4	21.0	20.9	21.5	22.0	22.1	22.7	22.6	23.2	23.7
	12H	20.5	21.1	21.0	21.6	22.1	22.4	23.0	23.0	23.5	24.1
12H	4H	19.5	20.3	20.0	20.8	21.3	20.5	21.3	21.0	21.8	22.3
	6H	20.3	21.0	20.8	21.4	21.9	21.7	22.3	22.2	22.8	23.3
	8H	20.6	21.1	21.1	21.6	22.2	22.2	22.8	22.7	23.3	23.8

(END OF REPORT)