

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: P1589918

Luminaire Tested: 24CZSP-SB-62-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-SB-62-L845-S
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 5500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

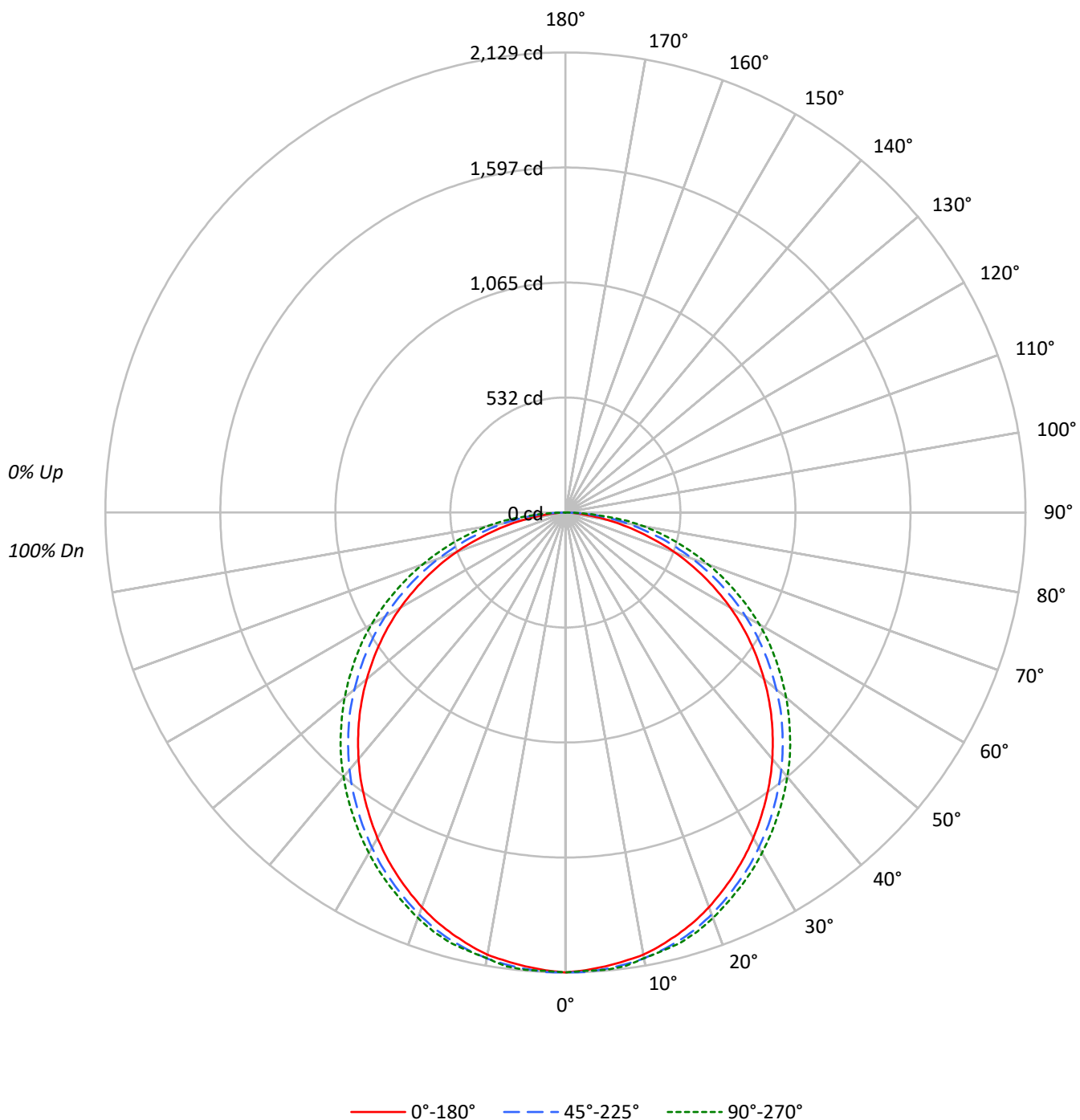
Lumens per Lamp: N/A
Luminaire Lumens: 6192.0 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	94	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	66	61	69	64	60	58		
4	82	70	61	54	79	68	60	53	66	58	53	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	45	39	50	44	39	37		
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33		
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29		
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26		
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3260	3260	3260
5°	3242	3260	3267
10°	3232	3259	3257
15°	3202	3249	3268
20°	3168	3226	3254
25°	3122	3194	3235
30°	3077	3166	3218
35°	3026	3136	3203
40°	2977	3108	3193
45°	2923	3076	3185
50°	2860	3038	3177
55°	2789	2998	3173
60°	2701	2954	3174
65°	2578	2892	3157
70°	2410	2804	3150
75°	2136	2696	3161
80°	1738	2561	3255
85°	1123	2364	2808

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3298 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.4	3.3
10°-20°	576.8	9.3
20°-30°	869.7	14.0
30°-40°	1046.5	16.9
40°-50°	1091.6	17.6
50°-60°	1000.6	16.2
60°-70°	785.7	12.7
70°-80°	478.2	7.7
80°-90°	141.5	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°	1648.0	26.6
0°-40°	2694.5	43.5
0°-60°	4786.7	77.3
0°-90°	6192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6192.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2129	2129	2129	2129	2129	
5°	2109	2122	2121	2118	2125	200
15°	2019	2039	2049	2051	2061	570
25°	1848	1873	1890	1902	1914	851
35°	1618	1644	1677	1701	1713	1013
45°	1349	1377	1420	1453	1471	1041
55°	1044	1071	1123	1168	1188	933
65°	711	738	798	851	871	704
75°	361	394	456	510	534	383
85°	64	91	134	150	160	83
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2128.6	2128.6	2128.6	2128.6	2128.6
2.5°	2120.6	2131.3	2128.6	2119.3	2123.3
5°	2108.6	2121.9	2120.6	2117.9	2124.6
7.5°	2094.0	2108.6	2109.9	2109.9	2117.9
10°	2078.0	2092.6	2095.3	2091.3	2094.0
12.5°	2051.3	2068.7	2074.0	2074.0	2078.0
15°	2019.4	2039.3	2048.7	2051.3	2060.7
17.5°	1984.7	2006.0	2018.0	2024.7	2032.7
20°	1943.4	1966.1	1979.4	1987.4	1996.7
22.5°	1896.8	1922.1	1936.8	1944.8	1955.4
25°	1847.5	1872.8	1890.2	1902.1	1914.1
27.5°	1795.6	1819.6	1843.5	1858.2	1868.8
30°	1739.6	1764.9	1790.3	1808.9	1819.6
32.5°	1679.7	1706.3	1735.6	1755.6	1767.6
35°	1618.4	1643.7	1677.0	1701.0	1713.0
37.5°	1555.8	1582.5	1617.1	1642.4	1657.1
40°	1489.2	1517.2	1554.5	1582.5	1597.1
42.5°	1420.0	1446.6	1487.9	1519.9	1537.2
45°	1349.4	1377.3	1420.0	1453.3	1470.6
47.5°	1276.1	1302.7	1349.4	1388.0	1402.6
50°	1200.2	1225.5	1274.8	1316.1	1333.4
52.5°	1122.9	1149.5	1198.8	1242.8	1261.4
55°	1044.3	1071.0	1122.9	1168.2	1188.2
57.5°	964.4	991.0	1044.3	1090.9	1114.9
60°	881.8	908.4	964.4	1012.3	1036.3
62.5°	796.6	824.5	881.8	931.1	956.4
65°	711.3	737.9	797.9	851.2	871.2
67.5°	626.1	652.7	711.3	764.6	788.6
70°	538.1	568.8	626.1	682.0	703.3
72.5°	446.2	480.9	538.1	596.8	618.1
75°	361.0	394.3	455.6	510.2	534.1
77.5°	277.1	313.0	370.3	426.3	450.2
80°	197.1	231.8	290.4	343.7	369.0
82.5°	125.2	155.8	214.5	262.4	281.1
85°	63.9	90.6	134.5	150.5	159.8
87.5°	18.6	32.0	48.0	59.9	66.6
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	15.6	17.3	16.0	17.6	17.9	16.3	18.0	16.7	18.3	18.6
	3H	17.4	18.9	17.8	19.2	19.6	18.4	19.9	18.8	20.3	20.6
	4H	18.0	19.4	18.4	19.8	20.1	19.3	20.7	19.7	21.1	21.4
	6H	18.4	19.7	18.8	20.1	20.5	20.0	21.3	20.4	21.7	22.1
	8H	18.5	19.8	18.9	20.2	20.6	20.3	21.6	20.7	22.0	22.4
	12H	18.6	19.8	19.0	20.1	20.6	20.5	21.7	20.9	22.1	22.5
4H	2H	16.4	17.8	16.8	18.1	18.5	16.9	18.4	17.3	18.7	19.1
	3H	18.4	19.6	18.8	20.0	20.4	19.3	20.5	19.7	20.9	21.2
	4H	19.1	20.2	19.5	20.6	21.0	20.3	21.4	20.7	21.8	22.2
	6H	19.6	20.6	20.1	21.0	21.5	21.2	22.1	21.6	22.6	23.0
	8H	19.8	20.7	20.2	21.1	21.6	21.5	22.4	22.0	22.9	23.3
	12H	19.9	20.7	20.3	21.1	21.6	21.8	22.6	22.3	23.1	23.5
8H	4H	19.6	20.4	20.0	20.9	21.3	20.6	21.5	21.0	21.9	22.4
	6H	20.2	21.0	20.7	21.4	21.9	21.6	22.4	22.1	22.9	23.3
	8H	20.4	21.1	20.9	21.6	22.1	22.1	22.8	22.6	23.3	23.8
	12H	20.6	21.2	21.1	21.6	22.2	22.5	23.0	23.0	23.5	24.1
12H	4H	19.6	20.4	20.1	20.9	21.4	20.6	21.4	21.1	21.9	22.3
	6H	20.4	21.0	20.9	21.5	22.0	21.7	22.4	22.2	22.8	23.4
	8H	20.6	21.2	21.1	21.7	22.3	22.2	22.8	22.7	23.3	23.9

(END OF REPORT)