

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: P1589949

Luminaire Tested: 24CZSP-SB-65-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589949
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-65-L945
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 6000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

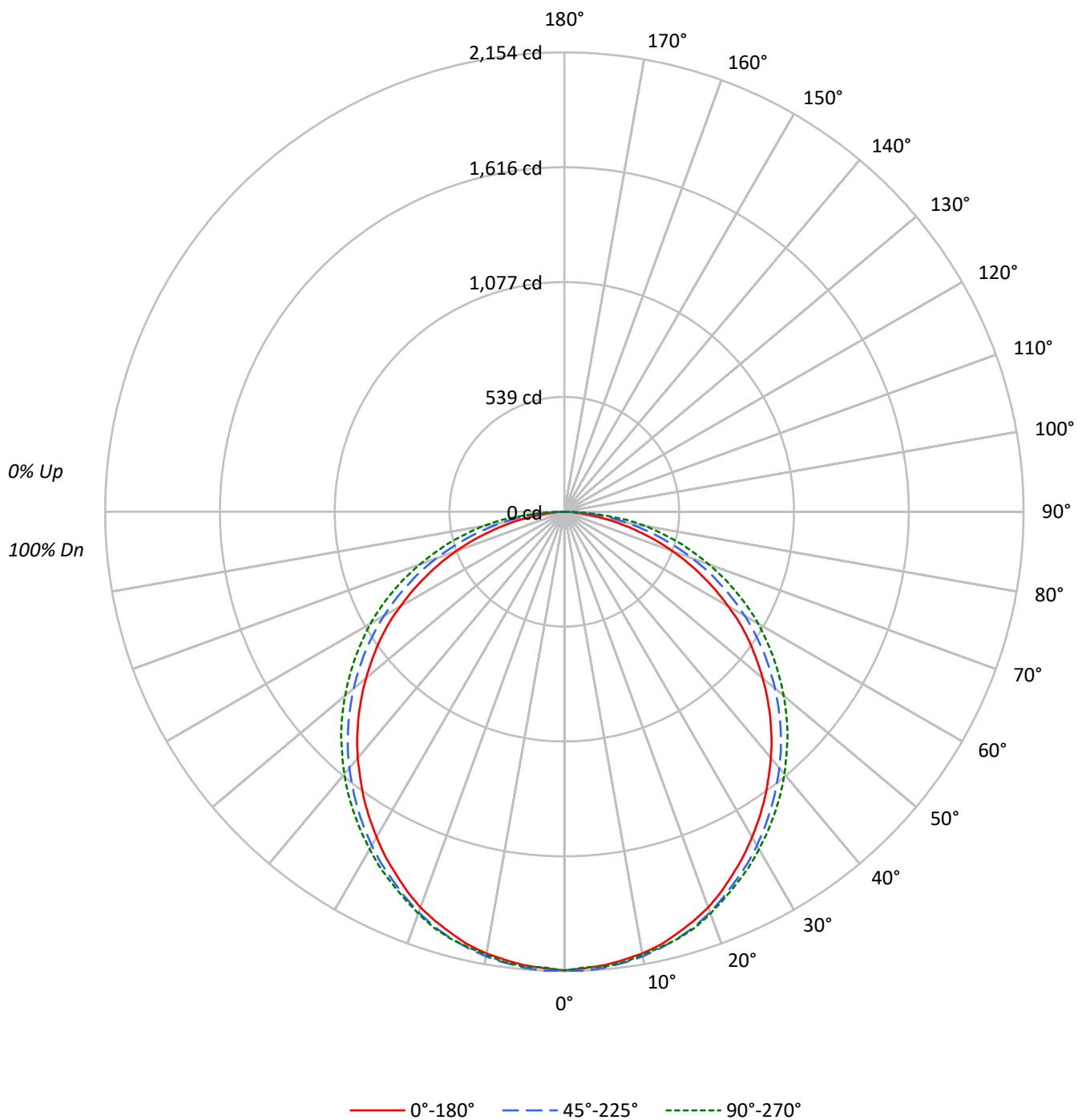
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6276.0 lumens
Efficiency: N/A
Efficacy: 131.0 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): 47.9
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

TEST NUMBER: P1589949
CATALOG NUMBER: 24CZSP-SB-65-L945

Luminous Intensity Polar Plot



TEST NUMBER: P1589949

CATALOG NUMBER: 24CZSP-SB-65-L945

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	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°	3294	3294	3294
5°	3282	3300	3292
10°	3270	3293	3281
15°	3246	3279	3284
20°	3217	3256	3267
25°	3165	3221	3244
30°	3115	3195	3230
35°	3065	3164	3219
40°	3014	3136	3211
45°	2958	3107	3208
50°	2893	3073	3200
55°	2827	3040	3199
60°	2722	2995	3219
65°	2595	2937	3220
70°	2421	2855	3230
75°	2154	2751	3286
80°	1769	2636	3409
85°	1167	2474	3081

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3491 cd/sqm

TEST NUMBER: P1589949

CATALOG NUMBER: 24CZSP-SB-65-L945

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.4	3.2
10°-20°	582.3	9.3
20°-30°	877.6	14.0
30°-40°	1056.9	16.8
40°-50°	1104.2	17.6
50°-60°	1014.4	16.2
60°-70°	798.9	12.7
70°-80°	489.8	7.8
80°-90°	148.5	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°	1663.3	26.5
0°-40°	2720.3	43.3
0°-60°	4838.9	77.1
0°-90°	6276.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6276.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2150	2150	2150	2150	2150	
5°	2135	2139	2146	2144	2141	203
15°	2047	2055	2068	2076	2071	578
25°	1873	1885	1906	1926	1919	863
35°	1639	1660	1692	1723	1722	1025
45°	1366	1395	1435	1474	1481	1053
55°	1059	1089	1138	1188	1198	945
65°	716	753	810	865	889	708
75°	364	406	465	521	555	387
85°	66	98	141	157	175	85
90°	0	0	0	0	0	

TEST NUMBER: P1589949

CATALOG NUMBER: 24CZSP-SB-65-L945

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2150.5	2150.5	2150.5	2150.5	2150.5
2.5°	2142.6	2147.9	2154.5	2143.9	2138.6
5°	2134.6	2138.6	2146.5	2143.9	2141.2
7.5°	2120.0	2122.6	2133.3	2133.3	2130.6
10°	2102.7	2108.0	2117.3	2116.0	2109.4
12.5°	2080.1	2084.1	2094.7	2094.7	2090.8
15°	2046.9	2054.9	2068.2	2076.1	2070.8
17.5°	2012.4	2020.4	2037.6	2045.6	2042.9
20°	1973.9	1980.5	1997.8	2009.7	2004.4
22.5°	1926.0	1934.0	1953.9	1967.2	1961.9
25°	1872.9	1884.9	1906.1	1926.0	1919.4
27.5°	1819.8	1833.1	1859.6	1879.6	1876.9
30°	1761.3	1778.6	1806.5	1831.7	1826.4
32.5°	1701.6	1721.5	1750.7	1777.3	1776.0
35°	1639.1	1660.4	1692.3	1722.8	1721.5
37.5°	1572.7	1598.0	1631.2	1664.4	1665.7
40°	1507.6	1531.5	1568.7	1604.6	1605.9
42.5°	1438.6	1463.8	1503.6	1540.8	1542.2
45°	1365.5	1394.7	1434.6	1474.4	1481.1
47.5°	1291.1	1321.7	1362.8	1405.4	1413.3
50°	1214.1	1246.0	1289.8	1335.0	1342.9
52.5°	1135.7	1168.9	1214.1	1259.2	1271.2
55°	1058.7	1089.2	1138.4	1187.5	1198.1
57.5°	977.6	1005.5	1058.7	1110.5	1123.8
60°	888.6	923.2	977.6	1029.4	1050.7
62.5°	802.3	839.5	895.3	947.1	971.0
65°	716.0	753.2	810.3	864.7	888.6
67.5°	628.3	666.8	727.9	779.7	806.3
70°	540.6	579.1	637.6	693.4	721.3
72.5°	453.0	494.1	551.2	608.4	636.3
75°	364.0	406.5	464.9	520.7	555.2
77.5°	280.3	321.5	379.9	437.0	466.2
80°	200.6	241.8	298.9	356.0	386.5
82.5°	127.5	166.0	221.8	269.6	297.5
85°	66.4	98.3	140.8	156.7	175.3
87.5°	19.9	38.5	54.5	61.1	75.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1589949

CATALOG NUMBER: 24CZSP-SB-65-L945

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	15.7	17.3	16.0	17.6	17.9	16.4	18.1	16.8	18.4	18.7
	3H	17.4	18.9	17.8	19.3	19.6	18.5	20.0	18.9	20.3	20.7
	4H	18.0	19.5	18.4	19.8	20.2	19.4	20.8	19.8	21.2	21.5
	6H	18.5	19.8	18.9	20.1	20.5	20.1	21.5	20.6	21.8	22.2
	8H	18.6	19.8	19.0	20.2	20.6	20.5	21.7	20.9	22.1	22.5
	12H	18.6	19.8	19.0	20.2	20.6	20.7	21.9	21.1	22.3	22.7
4H	2H	16.4	17.8	16.8	18.2	18.6	17.0	18.4	17.4	18.8	19.1
	3H	18.4	19.6	18.8	20.0	20.4	19.3	20.5	19.7	20.9	21.3
	4H	19.2	20.3	19.6	20.7	21.1	20.4	21.5	20.8	21.9	22.3
	6H	19.7	20.7	20.2	21.1	21.6	21.3	22.3	21.8	22.7	23.1
	8H	19.9	20.7	20.3	21.2	21.7	21.7	22.6	22.1	23.0	23.5
	12H	19.9	20.7	20.4	21.2	21.7	22.0	22.8	22.4	23.2	23.7
8H	4H	19.6	20.5	20.1	21.0	21.4	20.7	21.6	21.1	22.0	22.5
	6H	20.3	21.0	20.8	21.5	22.0	21.8	22.5	22.2	23.0	23.5
	8H	20.5	21.2	21.0	21.7	22.2	22.2	22.9	22.7	23.4	23.9
	12H	20.7	21.3	21.2	21.8	22.3	22.6	23.2	23.1	23.7	24.3
12H	4H	19.7	20.5	20.2	21.0	21.5	20.7	21.5	21.2	22.0	22.4
	6H	20.4	21.1	21.0	21.6	22.1	21.8	22.5	22.3	22.9	23.5
	8H	20.7	21.3	21.2	21.8	22.4	22.4	23.0	22.9	23.4	24.0

(END OF REPORT)