

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: P1589963

Luminaire Tested: 24CZSP-SB-65VHE-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589963
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-65VHE-L930
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 7000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

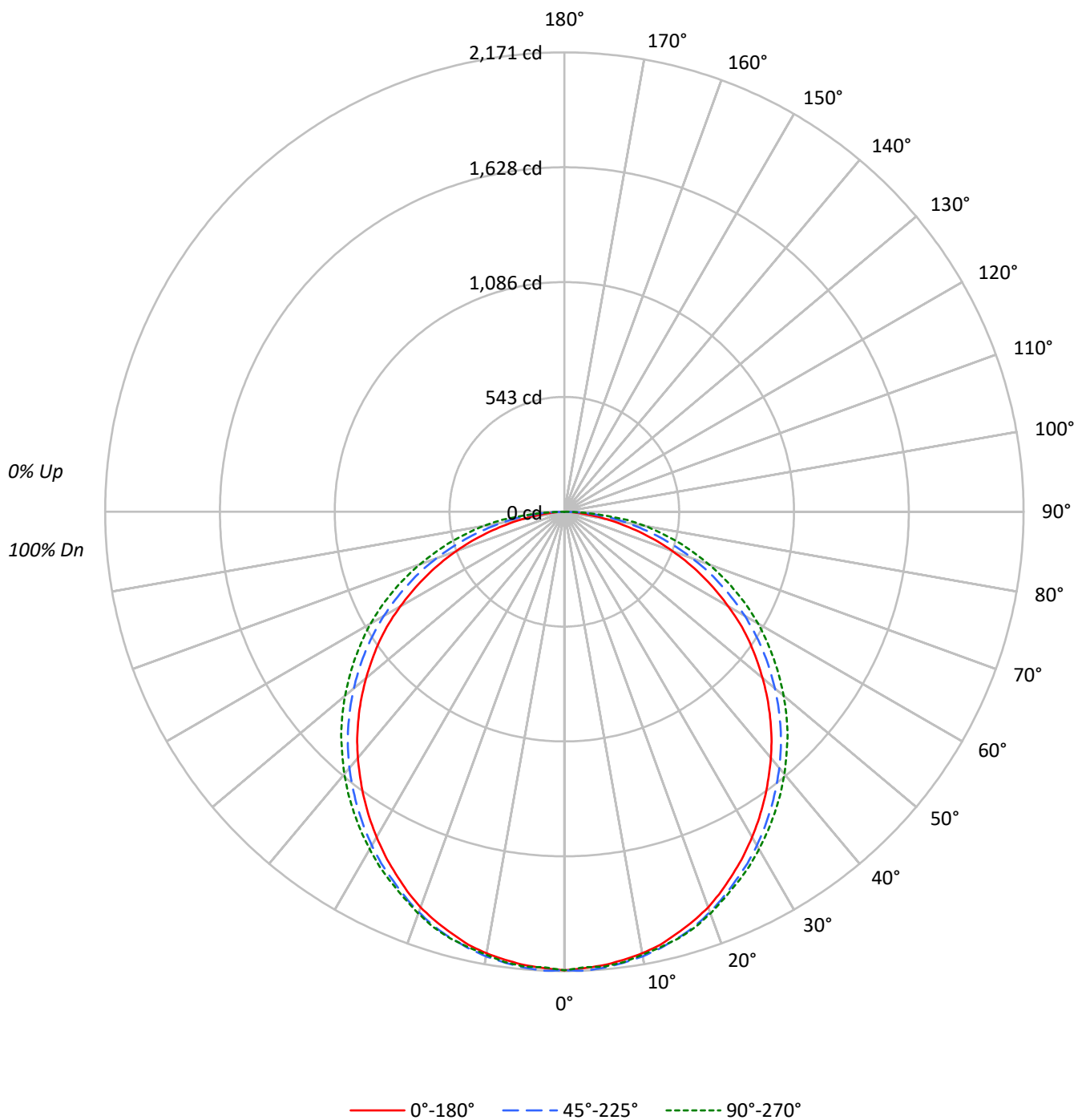
Lumens per Lamp: N/A
Luminaire Lumens: 6324.0 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 50.1
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			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°	3319	3319	3319
5°	3307	3326	3317
10°	3295	3318	3306
15°	3271	3305	3309
20°	3242	3281	3292
25°	3189	3246	3269
30°	3139	3219	3255
35°	3088	3188	3243
40°	3037	3160	3235
45°	2980	3131	3233
50°	2915	3097	3224
55°	2849	3063	3224
60°	2743	3018	3243
65°	2614	2959	3245
70°	2440	2877	3255
75°	2170	2772	3311
80°	1783	2657	3435
85°	1176	2494	3105

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3518 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.0	3.2
10°-20°	586.7	9.3
20°-30°	884.4	14.0
30°-40°	1065.0	16.8
40°-50°	1112.6	17.6
50°-60°	1022.2	16.2
60°-70°	805.0	12.7
70°-80°	493.5	7.8
80°-90°	149.6	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°	1676.1	26.5
0°-40°	2741.1	43.3
0°-60°	4875.9	77.1
0°-90°	6324.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6324.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2167	2167	2167	2167	2167	
5°	2151	2155	2163	2160	2158	204
15°	2063	2071	2084	2092	2087	582
25°	1887	1899	1921	1941	1934	870
35°	1652	1673	1705	1736	1735	1033
45°	1376	1405	1446	1486	1492	1061
55°	1067	1098	1147	1197	1207	952
65°	721	759	816	871	895	713
75°	367	410	468	525	560	390
85°	67	99	142	158	177	86
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2167.0	2167.0	2167.0	2167.0	2167.0
2.5°	2159.0	2164.3	2171.0	2160.3	2154.9
5°	2150.9	2154.9	2163.0	2160.3	2157.6
7.5°	2136.2	2138.9	2149.6	2149.6	2146.9
10°	2118.8	2124.2	2133.5	2132.2	2125.5
12.5°	2096.0	2100.1	2110.8	2110.8	2106.8
15°	2062.6	2070.6	2084.0	2092.0	2086.7
17.5°	2027.8	2035.8	2053.2	2061.2	2058.6
20°	1989.0	1995.7	2013.1	2025.1	2019.8
22.5°	1940.8	1948.8	1968.9	1982.3	1976.9
25°	1887.2	1899.3	1920.7	1940.8	1934.1
27.5°	1833.7	1847.1	1873.9	1893.9	1891.3
30°	1774.8	1792.2	1820.3	1845.7	1840.4
32.5°	1714.6	1734.7	1764.1	1790.9	1789.5
35°	1651.7	1673.1	1705.2	1736.0	1734.7
37.5°	1584.7	1610.2	1643.6	1677.1	1678.4
40°	1519.2	1543.3	1580.7	1616.9	1618.2
42.5°	1449.6	1475.0	1515.1	1552.6	1554.0
45°	1375.9	1405.4	1445.5	1485.7	1492.4
47.5°	1301.0	1331.8	1373.3	1416.1	1424.1
50°	1223.4	1255.5	1299.7	1345.2	1353.2
52.5°	1144.4	1177.9	1223.4	1268.9	1280.9
55°	1066.8	1097.5	1147.1	1196.6	1207.3
57.5°	985.1	1013.2	1066.8	1119.0	1132.3
60°	895.4	930.2	985.1	1037.3	1058.7
62.5°	808.4	845.9	902.1	954.3	978.4
65°	721.4	758.9	816.5	871.3	895.4
67.5°	633.1	671.9	733.5	785.7	812.5
70°	544.8	583.6	642.5	698.7	726.8
72.5°	456.4	497.9	555.5	613.0	641.1
75°	366.7	409.6	468.5	524.7	559.5
77.5°	282.4	323.9	382.8	440.4	469.8
80°	202.1	243.6	301.2	358.7	389.5
82.5°	128.5	167.3	223.5	271.7	299.8
85°	66.9	99.0	141.9	157.9	176.7
87.5°	20.1	38.8	54.9	61.6	76.3
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	15.7	17.3	16.0	17.7	18.0	16.4	18.1	16.8	18.4	18.7
	3H	17.4	19.0	17.8	19.3	19.6	18.5	20.0	18.9	20.4	20.7
	4H	18.1	19.5	18.5	19.8	20.2	19.4	20.8	19.8	21.2	21.6
	6H	18.5	19.8	18.9	20.2	20.6	20.2	21.5	20.6	21.9	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	19.1	20.2	20.7	20.7	21.9	21.1	22.3	22.7
4H	2H	16.5	17.9	16.8	18.2	18.6	17.0	18.5	17.4	18.8	19.2
	3H	18.4	19.6	18.9	20.0	20.4	19.4	20.6	19.8	21.0	21.4
	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	23.2
	8H	19.9	20.8	20.3	21.2	21.7	21.7	22.6	22.2	23.0	23.5
	12H	20.0	20.8	20.4	21.2	21.7	22.0	22.8	22.5	23.3	23.7
8H	4H	19.7	20.5	20.1	21.0	21.4	20.7	21.6	21.2	22.0	22.5
	6H	20.3	21.1	20.8	21.6	22.0	21.8	22.5	22.3	23.0	23.5
	8H	20.5	21.2	21.1	21.7	22.2	22.3	22.9	22.8	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	22.5
	6H	20.5	21.1	21.0	21.6	22.1	21.8	22.5	22.4	23.0	23.5
	8H	20.7	21.3	21.3	21.8	22.4	22.4	23.0	22.9	23.5	24.0

(END OF REPORT)