

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: P1589946

Luminaire Tested: 24CZSP-SB-65-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589946
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-65-L940-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 6000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

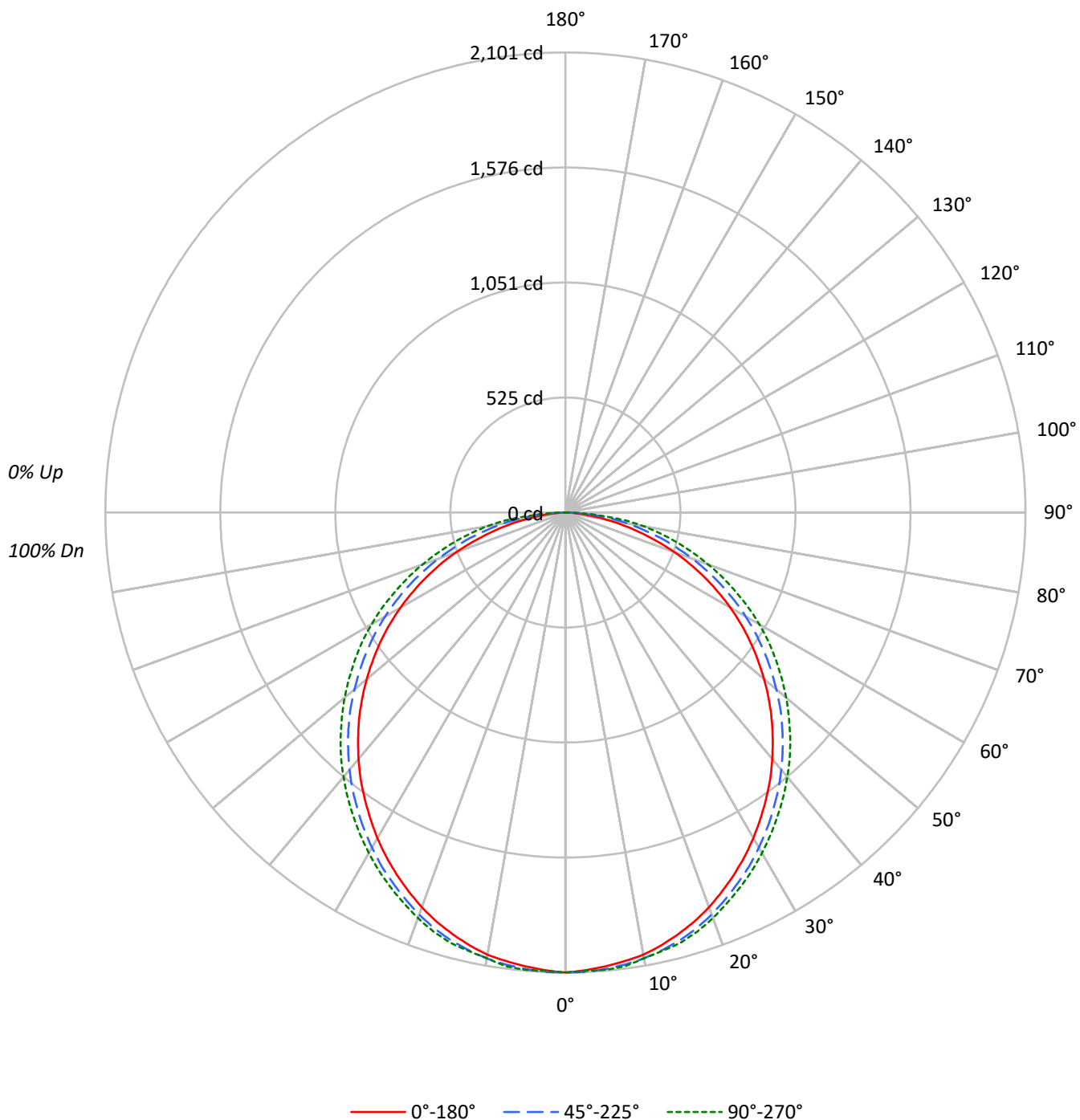
Lumens per Lamp: N/A
Luminaire Lumens: 6111.0 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	94	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	45	39		50
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3218	3218	3218
5°	3199	3218	3224
10°	3190	3216	3214
15°	3160	3206	3225
20°	3126	3184	3212
25°	3081	3152	3193
30°	3036	3125	3176
35°	2987	3095	3161
40°	2939	3067	3151
45°	2885	3035	3144
50°	2822	2998	3136
55°	2752	2959	3131
60°	2666	2916	3133
65°	2544	2854	3116
70°	2378	2767	3108
75°	2108	2661	3120
80°	1716	2528	3211
85°	1109	2334	2773

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3255 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.8	3.3
10°-20°	569.3	9.3
20°-30°	858.3	14.0
30°-40°	1032.8	16.9
40°-50°	1077.3	17.6
50°-60°	987.5	16.2
60°-70°	775.4	12.7
70°-80°	471.9	7.7
80°-90°	139.6	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°	1626.4	26.6
0°-40°	2659.3	43.5
0°-60°	4724.0	77.3
0°-90°	6111.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6111.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2101	2101	2101	2101	2101	
5°	2081	2094	2093	2090	2097	198
15°	1993	2013	2022	2024	2034	562
25°	1823	1848	1865	1877	1889	840
35°	1597	1622	1655	1679	1691	1000
45°	1332	1359	1401	1434	1451	1027
55°	1031	1057	1108	1153	1173	921
65°	702	728	788	840	860	694
75°	356	389	450	504	527	378
85°	63	89	133	149	158	82
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2100.8	2100.8	2100.8	2100.8	2100.8
2.5°	2092.9	2103.4	2100.8	2091.5	2095.5
5°	2081.0	2094.2	2092.9	2090.2	2096.8
7.5°	2066.6	2081.0	2082.3	2082.3	2090.2
10°	2050.8	2065.3	2067.9	2063.9	2066.6
12.5°	2024.5	2041.6	2046.9	2046.9	2050.8
15°	1993.0	2012.7	2021.9	2024.5	2033.7
17.5°	1958.8	1979.8	1991.6	1998.2	2006.1
20°	1918.0	1940.4	1953.5	1961.4	1970.6
22.5°	1872.0	1897.0	1911.4	1919.3	1929.9
25°	1823.4	1848.3	1865.4	1877.3	1889.1
27.5°	1772.1	1795.8	1819.4	1833.9	1844.4
30°	1716.9	1741.9	1766.8	1785.2	1795.8
32.5°	1657.7	1684.0	1712.9	1732.7	1744.5
35°	1597.3	1622.2	1655.1	1678.8	1690.6
37.5°	1535.5	1561.8	1595.9	1620.9	1635.4
40°	1469.7	1497.3	1534.2	1561.8	1576.2
42.5°	1401.4	1427.7	1468.4	1500.0	1517.1
45°	1331.7	1359.3	1401.4	1434.2	1451.3
47.5°	1259.4	1285.7	1331.7	1369.8	1384.3
50°	1184.5	1209.4	1258.1	1298.8	1315.9
52.5°	1108.2	1134.5	1183.2	1226.5	1244.9
55°	1030.7	1056.9	1108.2	1152.9	1172.6
57.5°	951.8	978.1	1030.7	1076.7	1100.3
60°	870.3	896.6	951.8	999.1	1022.8
62.5°	786.1	813.7	870.3	918.9	943.9
65°	702.0	728.3	787.5	840.0	859.8
67.5°	617.9	644.2	702.0	754.6	778.3
70°	531.1	561.3	617.9	673.1	694.1
72.5°	440.4	474.6	531.1	588.9	610.0
75°	356.3	389.1	449.6	503.5	527.2
77.5°	273.4	308.9	365.5	420.7	444.3
80°	194.6	228.7	286.6	339.2	364.1
82.5°	123.6	153.8	211.7	259.0	277.4
85°	63.1	89.4	132.8	148.6	157.8
87.5°	18.4	31.6	47.3	59.2	65.7
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	15.6	17.2	15.9	17.5	17.8	16.3	18.0	16.7	18.3	18.6
	3H	17.3	18.8	17.7	19.2	19.5	18.4	19.9	18.8	20.2	20.6
	4H	17.9	19.4	18.3	19.7	20.1	19.2	20.7	19.6	21.0	21.4
	6H	18.4	19.7	18.8	20.0	20.4	20.0	21.3	20.4	21.7	22.1
	8H	18.5	19.7	18.9	20.1	20.5	20.3	21.5	20.7	21.9	22.3
	12H	18.5	19.7	18.9	20.1	20.5	20.5	21.7	20.9	22.1	22.5
4H	2H	16.3	17.7	16.7	18.1	18.5	16.9	18.3	17.3	18.7	19.0
	3H	18.3	19.5	18.7	19.9	20.3	19.2	20.4	19.6	20.8	21.2
	4H	19.1	20.1	19.5	20.6	21.0	20.2	21.3	20.7	21.7	22.2
	6H	19.6	20.5	20.0	21.0	21.4	21.1	22.1	21.6	22.5	23.0
	8H	19.7	20.6	20.2	21.1	21.5	21.5	22.4	22.0	22.8	23.3
	12H	19.8	20.6	20.3	21.1	21.6	21.8	22.6	22.2	23.0	23.5
8H	4H	19.5	20.4	20.0	20.8	21.3	20.5	21.4	21.0	21.9	22.3
	6H	20.2	20.9	20.7	21.4	21.9	21.6	22.3	22.1	22.8	23.3
	8H	20.4	21.0	20.9	21.6	22.0	22.1	22.7	22.6	23.2	23.7
	12H	20.5	21.1	21.0	21.6	22.2	22.4	23.0	22.9	23.5	24.0
12H	4H	19.6	20.4	20.1	20.9	21.3	20.6	21.4	21.0	21.8	22.3
	6H	20.3	21.0	20.8	21.4	22.0	21.7	22.3	22.2	22.8	23.3
	8H	20.6	21.2	21.1	21.7	22.2	22.2	22.8	22.7	23.3	23.8

(END OF REPORT)