

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: P1589966

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589966
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-65VHE-L940-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 7000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

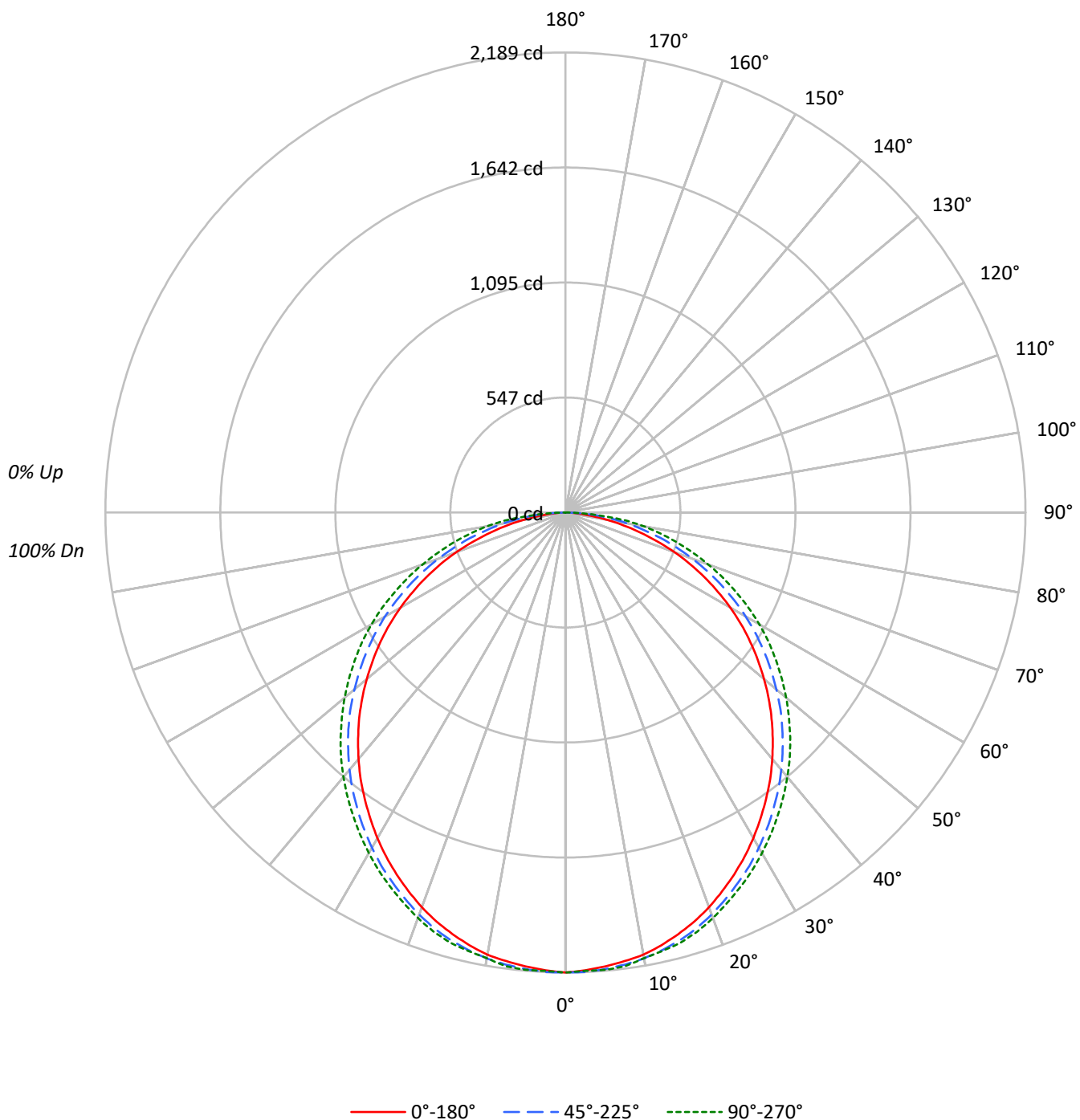
Lumens per Lamp: N/A
Luminaire Lumens: 6367.0 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3352	3352	3352
5°	3334	3352	3359
10°	3323	3351	3349
15°	3292	3340	3360
20°	3257	3317	3347
25°	3211	3285	3326
30°	3164	3256	3309
35°	3112	3224	3293
40°	3062	3196	3284
45°	3005	3163	3275
50°	2941	3123	3267
55°	2867	3083	3263
60°	2777	3038	3264
65°	2651	2973	3247
70°	2478	2883	3239
75°	2197	2772	3250
80°	1788	2634	3346
85°	1155	2430	2889

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3391 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.1	3.3
10°-20°	593.1	9.3
20°-30°	894.3	14.0
30°-40°	1076.1	16.9
40°-50°	1122.5	17.6
50°-60°	1028.8	16.2
60°-70°	807.9	12.7
70°-80°	491.7	7.7
80°-90°	145.5	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°	1694.6	26.6
0°-40°	2770.7	43.5
0°-60°	4921.9	77.3
0°-90°	6367.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6367.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2189	2189	2189	2189	2189	
5°	2168	2182	2180	2178	2185	206
15°	2076	2097	2107	2109	2119	586
25°	1900	1926	1944	1956	1968	875
35°	1664	1690	1724	1749	1761	1041
45°	1388	1416	1460	1494	1512	1070
55°	1074	1101	1155	1201	1222	960
65°	731	759	820	875	896	723
75°	371	405	468	525	549	393
85°	66	93	138	155	164	86
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2188.8	2188.8	2188.8	2188.8	2188.8
2.5°	2180.5	2191.5	2188.8	2179.2	2183.3
5°	2168.2	2181.9	2180.5	2177.8	2184.6
7.5°	2153.1	2168.2	2169.6	2169.6	2177.8
10°	2136.7	2151.8	2154.5	2150.4	2153.1
12.5°	2109.3	2127.1	2132.6	2132.6	2136.7
15°	2076.4	2097.0	2106.6	2109.3	2118.9
17.5°	2040.8	2062.7	2075.1	2081.9	2090.1
20°	1998.4	2021.7	2035.3	2043.6	2053.2
22.5°	1950.4	1976.5	1991.5	1999.7	2010.7
25°	1899.8	1925.8	1943.6	1955.9	1968.2
27.5°	1846.3	1871.0	1895.6	1910.7	1921.7
30°	1788.8	1814.8	1840.9	1860.0	1871.0
32.5°	1727.2	1754.6	1784.7	1805.2	1817.6
35°	1664.2	1690.2	1724.4	1749.1	1761.4
37.5°	1599.8	1627.2	1662.8	1688.8	1703.9
40°	1531.3	1560.1	1598.4	1627.2	1642.3
42.5°	1460.1	1487.5	1529.9	1562.8	1580.6
45°	1387.5	1416.3	1460.1	1494.3	1512.1
47.5°	1312.2	1339.6	1387.5	1427.2	1442.3
50°	1234.1	1260.1	1310.8	1353.2	1371.1
52.5°	1154.6	1182.0	1232.7	1277.9	1297.1
55°	1073.8	1101.2	1154.6	1201.2	1221.8
57.5°	991.7	1019.0	1073.8	1121.8	1146.4
60°	906.7	934.1	991.7	1041.0	1065.6
62.5°	819.1	847.8	906.7	957.4	983.4
65°	731.4	758.8	820.4	875.2	895.8
67.5°	643.8	671.1	731.4	786.2	810.9
70°	553.4	584.9	643.8	701.3	723.2
72.5°	458.8	494.5	553.4	613.6	635.5
75°	371.2	405.4	468.4	524.6	549.2
77.5°	284.9	321.9	380.8	438.3	463.0
80°	202.7	238.3	298.6	353.4	379.4
82.5°	128.8	160.3	220.5	269.8	289.0
85°	65.7	93.1	138.3	154.8	164.4
87.5°	19.2	32.9	49.3	61.6	68.5
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	17.4	16.1	17.7	18.0	16.4	18.1	16.8	18.4	18.7
	3H	17.5	19.0	17.8	19.3	19.7	18.5	20.0	18.9	20.3	20.7
	4H	18.1	19.5	18.5	19.9	20.2	19.4	20.8	19.8	21.1	21.5
	6H	18.5	19.8	18.9	20.2	20.6	20.1	21.4	20.5	21.8	22.2
	8H	18.6	19.9	19.0	20.3	20.6	20.4	21.7	20.8	22.1	22.5
	12H	18.7	19.9	19.1	20.2	20.7	20.6	21.8	21.0	22.2	22.6
4H	2H	16.5	17.9	16.9	18.2	18.6	17.0	18.5	17.4	18.8	19.2
	3H	18.5	19.7	18.9	20.1	20.5	19.4	20.6	19.8	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	22.2	21.7	22.7	23.1
	8H	19.9	20.8	20.3	21.2	21.7	21.6	22.5	22.1	23.0	23.4
	12H	20.0	20.8	20.4	21.2	21.7	21.9	22.7	22.4	23.2	23.6
8H	4H	19.7	20.5	20.1	21.0	21.4	20.7	21.6	21.1	22.0	22.5
	6H	20.3	21.1	20.8	21.5	22.0	21.7	22.5	22.2	23.0	23.4
	8H	20.5	21.2	21.0	21.7	22.2	22.2	22.9	22.7	23.4	23.9
	12H	20.7	21.2	21.2	21.7	22.3	22.6	23.1	23.1	23.6	24.2
12H	4H	19.7	20.5	20.2	21.0	21.5	20.7	21.5	21.2	22.0	22.4
	6H	20.5	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	22.3	22.9	22.8	23.4	24.0

(END OF REPORT)