

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: P1589953

Luminaire Tested: 24CZSP-SB-65VHE-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589953
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-L830
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 7000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

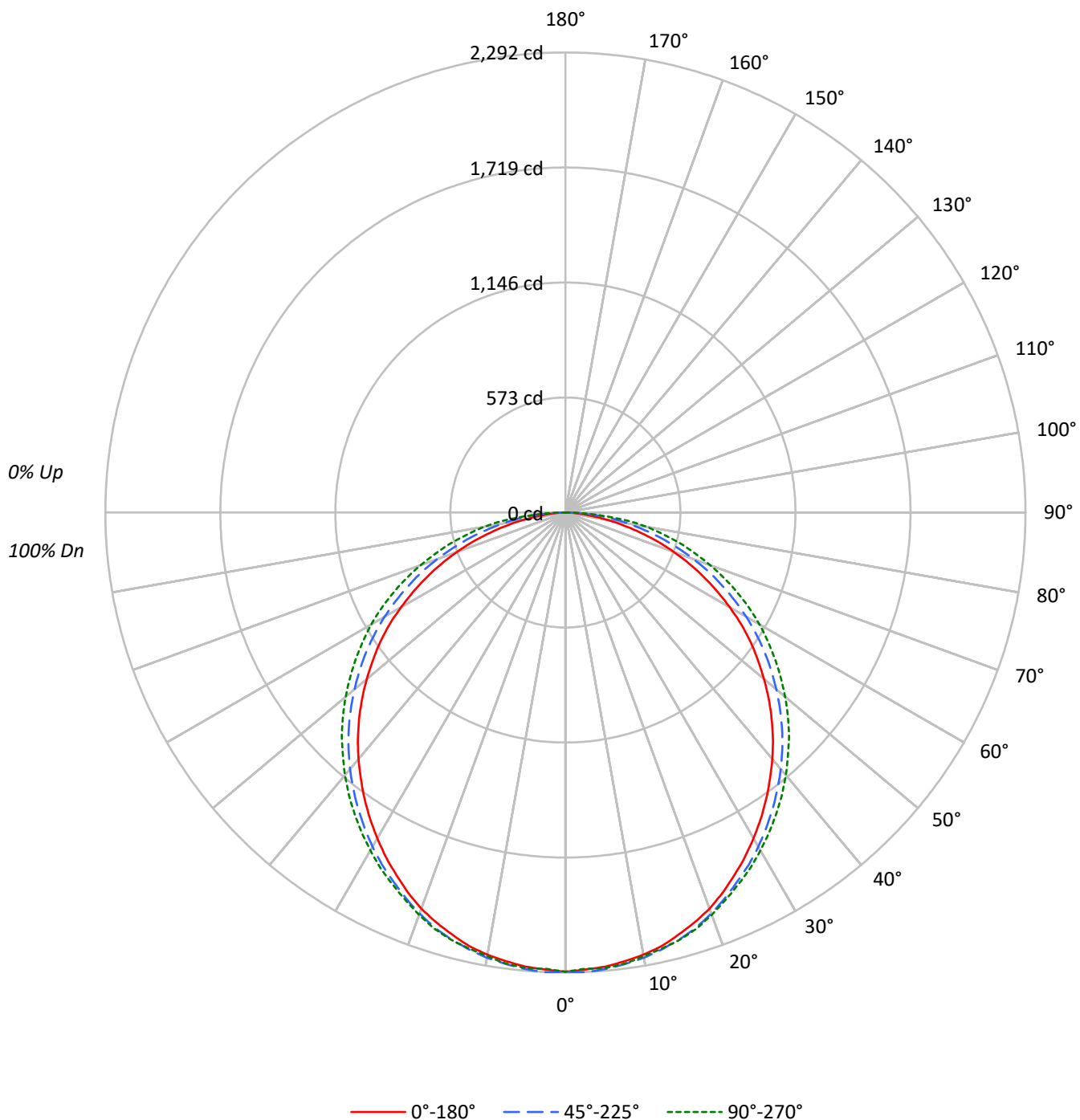
Lumens per Lamp: N/A
Luminaire Lumens: 6677.0 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
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	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°	3504	3504	3504
5°	3492	3511	3502
10°	3479	3503	3490
15°	3453	3489	3493
20°	3423	3464	3476
25°	3367	3427	3451
30°	3314	3399	3437
35°	3261	3366	3424
40°	3207	3337	3416
45°	3147	3306	3413
50°	3078	3270	3404
55°	3008	3234	3404
60°	2896	3186	3424
65°	2761	3124	3426
70°	2576	3038	3437
75°	2291	2927	3496
80°	1882	2805	3627
85°	1242	2633	3277

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3715 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.4	3.2
10°-20°	619.5	9.3
20°-30°	933.7	14.0
30°-40°	1124.4	16.8
40°-50°	1174.7	17.6
50°-60°	1079.3	16.2
60°-70°	849.9	12.7
70°-80°	521.1	7.8
80°-90°	158.0	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°	1769.6	26.5
0°-40°	2894.1	43.3
0°-60°	5148.0	77.1
0°-90°	6677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6677.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2288	2288	2288	2288	2288	
5°	2271	2275	2284	2281	2278	216
15°	2178	2186	2200	2209	2203	615
25°	1993	2005	2028	2049	2042	919
35°	1744	1766	1800	1833	1832	1091
45°	1453	1484	1526	1569	1576	1121
55°	1126	1159	1211	1263	1275	1005
65°	762	801	862	920	945	753
75°	387	432	495	554	591	412
85°	71	105	150	167	186	91
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2287.9	2287.9	2287.9	2287.9	2287.9
2.5°	2279.5	2285.1	2292.2	2280.9	2275.2
5°	2271.0	2275.2	2283.7	2280.9	2278.0
7.5°	2255.4	2258.3	2269.6	2269.6	2266.7
10°	2237.1	2242.7	2252.6	2251.2	2244.1
12.5°	2213.0	2217.3	2228.6	2228.6	2224.3
15°	2177.7	2186.2	2200.3	2208.8	2203.1
17.5°	2141.0	2149.4	2167.8	2176.3	2173.5
20°	2100.0	2107.1	2125.4	2138.1	2132.5
22.5°	2049.1	2057.6	2078.8	2092.9	2087.3
25°	1992.6	2005.3	2027.9	2049.1	2042.0
27.5°	1936.1	1950.2	1978.5	1999.7	1996.8
30°	1873.9	1892.2	1921.9	1948.8	1943.1
32.5°	1810.3	1831.5	1862.6	1890.8	1889.4
35°	1743.9	1766.5	1800.4	1832.9	1831.5
37.5°	1673.2	1700.1	1735.4	1770.7	1772.1
40°	1604.0	1629.4	1669.0	1707.1	1708.5
42.5°	1530.5	1557.3	1599.7	1639.3	1640.7
45°	1452.8	1483.8	1526.2	1568.6	1575.7
47.5°	1373.6	1406.1	1449.9	1495.1	1503.6
50°	1291.6	1325.6	1372.2	1420.2	1428.7
52.5°	1208.3	1243.6	1291.6	1339.7	1352.4
55°	1126.3	1158.8	1211.1	1263.4	1274.7
57.5°	1040.1	1069.8	1126.3	1181.4	1195.6
60°	945.4	982.2	1040.1	1095.2	1117.8
62.5°	853.6	893.1	952.5	1007.6	1033.0
65°	761.7	801.3	862.0	920.0	945.4
67.5°	668.4	709.4	774.4	829.5	857.8
70°	575.2	616.1	678.3	737.7	767.4
72.5°	481.9	525.7	586.5	647.2	676.9
75°	387.2	432.4	494.6	554.0	590.7
77.5°	298.2	342.0	404.2	464.9	496.0
80°	213.4	257.2	318.0	378.7	411.2
82.5°	135.7	176.6	236.0	286.9	316.6
85°	70.7	104.6	149.8	166.8	186.5
87.5°	21.2	41.0	57.9	65.0	80.6
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	15.9	17.5	16.2	17.8	18.2	16.6	18.3	17.0	18.6	18.9
	3H	17.6	19.1	18.0	19.5	19.8	18.7	20.2	19.1	20.5	20.9
	4H	18.3	19.7	18.7	20.0	20.4	19.6	21.0	20.0	21.4	21.7
	6H	18.7	20.0	19.1	20.4	20.7	20.4	21.7	20.8	22.0	22.4
	8H	18.8	20.0	19.2	20.4	20.8	20.7	21.9	21.1	22.3	22.7
	12H	18.8	20.0	19.3	20.4	20.8	20.9	22.1	21.3	22.5	22.9
4H	2H	16.6	18.1	17.0	18.4	18.8	17.2	18.6	17.6	19.0	19.4
	3H	18.6	19.8	19.0	20.2	20.6	19.5	20.7	20.0	21.1	21.5
	4H	19.4	20.5	19.8	20.9	21.3	20.6	21.7	21.0	22.1	22.5
	6H	19.9	20.9	20.4	21.3	21.8	21.5	22.5	22.0	22.9	23.4
	8H	20.1	21.0	20.5	21.4	21.9	21.9	22.8	22.4	23.2	23.7
	12H	20.2	21.0	20.6	21.4	21.9	22.2	23.0	22.7	23.5	23.9
8H	4H	19.8	20.7	20.3	21.2	21.6	20.9	21.8	21.3	22.2	22.7
	6H	20.5	21.3	21.0	21.7	22.2	22.0	22.7	22.5	23.2	23.7
	8H	20.7	21.4	21.2	21.9	22.4	22.5	23.1	23.0	23.6	24.1
	12H	20.9	21.5	21.4	22.0	22.5	22.8	23.4	23.3	23.9	24.5
12H	4H	19.9	20.7	20.4	21.2	21.7	20.9	21.7	21.4	22.2	22.7
	6H	20.7	21.3	21.2	21.8	22.3	22.0	22.7	22.6	23.2	23.7
	8H	20.9	21.5	21.4	22.0	22.6	22.6	23.2	23.1	23.7	24.2

(END OF REPORT)