

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: P1589952

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589952
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-L830-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 7000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

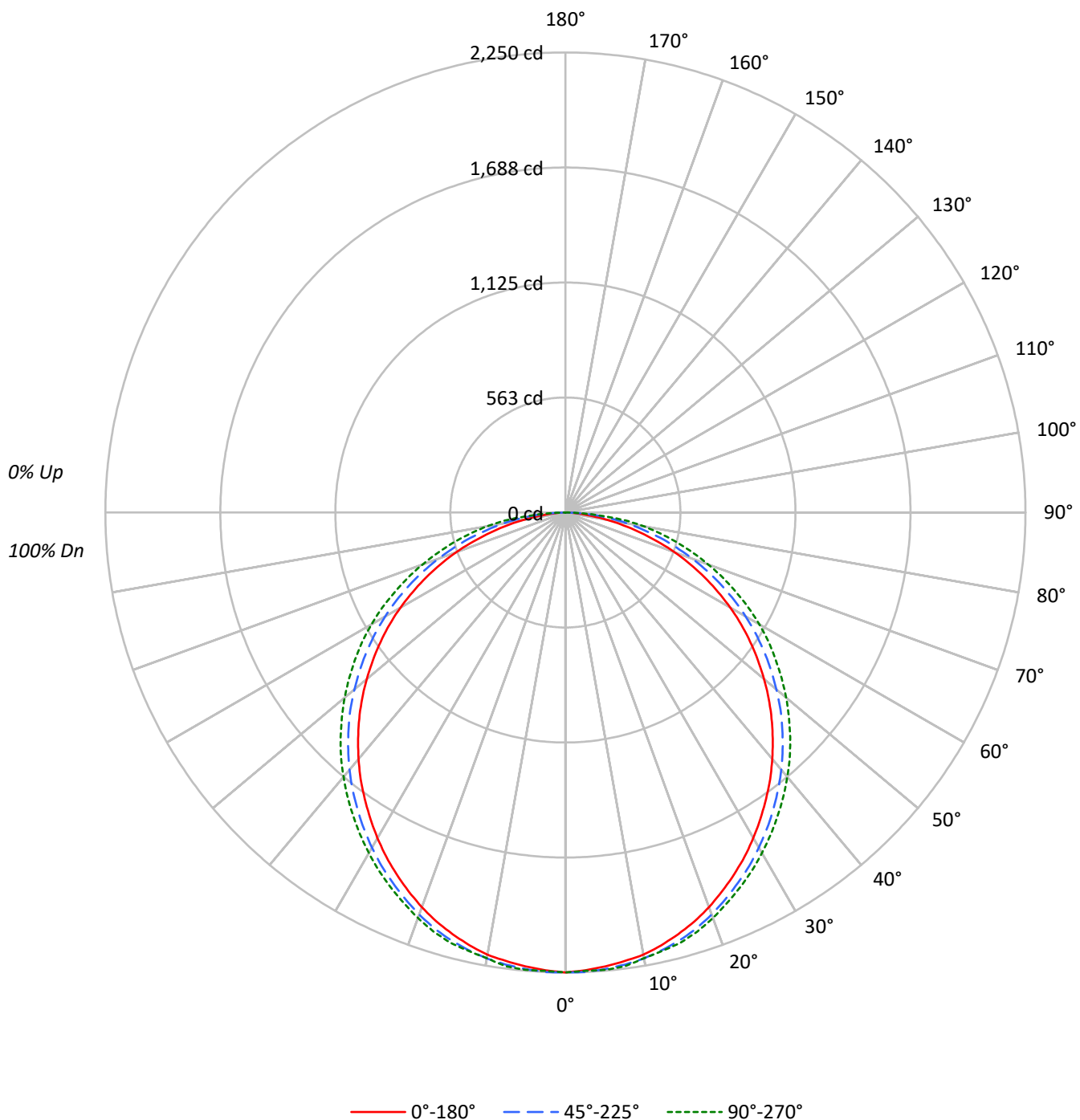
Lumens per Lamp: N/A
Luminaire Lumens: 6544.0 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3446	3446	3446
5°	3426	3446	3452
10°	3415	3444	3442
15°	3384	3433	3453
20°	3348	3410	3439
25°	3300	3376	3419
30°	3252	3346	3401
35°	3198	3314	3385
40°	3147	3285	3375
45°	3089	3251	3366
50°	3022	3210	3358
55°	2947	3169	3353
60°	2855	3122	3355
65°	2724	3056	3337
70°	2547	2963	3329
75°	2258	2849	3341
80°	1837	2707	3439
85°	1188	2499	2968

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3485 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.9	3.3
10°-20°	609.6	9.3
20°-30°	919.2	14.0
30°-40°	1106.0	16.9
40°-50°	1153.7	17.6
50°-60°	1057.4	16.2
60°-70°	830.3	12.7
70°-80°	505.4	7.7
80°-90°	149.5	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°	1741.7	26.6
0°-40°	2847.7	43.5
0°-60°	5058.8	77.3
0°-90°	6544.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6544.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2250	2250	2250	2250	2250	
5°	2228	2243	2241	2238	2245	212
15°	2134	2155	2165	2168	2178	602
25°	1953	1979	1998	2010	2023	900
35°	1710	1737	1772	1798	1810	1070
45°	1426	1456	1501	1536	1554	1100
55°	1104	1132	1187	1235	1256	986
65°	752	780	843	900	921	744
75°	382	417	482	539	564	404
85°	68	96	142	159	169	88
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2249.6	2249.6	2249.6	2249.6	2249.6
2.5°	2241.2	2252.4	2249.6	2239.7	2244.0
5°	2228.5	2242.6	2241.2	2238.3	2245.4
7.5°	2213.0	2228.5	2229.9	2229.9	2238.3
10°	2196.1	2211.6	2214.4	2210.2	2213.0
12.5°	2168.0	2186.3	2191.9	2191.9	2196.1
15°	2134.2	2155.3	2165.1	2168.0	2177.8
17.5°	2097.6	2120.1	2132.8	2139.8	2148.2
20°	2053.9	2077.9	2091.9	2100.4	2110.2
22.5°	2004.7	2031.4	2046.9	2055.3	2066.6
25°	1952.6	1979.3	1997.6	2010.3	2023.0
27.5°	1897.7	1923.0	1948.3	1963.8	1975.1
30°	1838.5	1865.3	1892.0	1911.7	1923.0
32.5°	1775.2	1803.3	1834.3	1855.4	1868.1
35°	1710.4	1737.2	1772.4	1797.7	1810.4
37.5°	1644.3	1672.4	1709.0	1735.8	1751.3
40°	1573.9	1603.4	1642.9	1672.4	1687.9
42.5°	1500.7	1528.8	1572.5	1606.3	1624.6
45°	1426.1	1455.6	1500.7	1535.9	1554.2
47.5°	1348.6	1376.8	1426.1	1466.9	1482.4
50°	1268.4	1295.1	1347.2	1390.9	1409.2
52.5°	1186.7	1214.9	1267.0	1313.4	1333.1
55°	1103.7	1131.8	1186.7	1234.6	1255.7
57.5°	1019.2	1047.4	1103.7	1153.0	1178.3
60°	931.9	960.1	1019.2	1069.9	1095.2
62.5°	841.8	871.4	931.9	984.0	1010.8
65°	751.7	779.9	843.2	899.6	920.7
67.5°	661.6	689.8	751.7	808.1	833.4
70°	568.7	601.1	661.6	720.8	743.3
72.5°	471.6	508.2	568.7	630.7	653.2
75°	381.5	416.7	481.5	539.2	564.5
77.5°	292.8	330.8	391.4	450.5	475.8
80°	208.3	245.0	306.9	363.2	389.9
82.5°	132.3	164.7	226.6	277.3	297.0
85°	67.6	95.7	142.2	159.1	168.9
87.5°	19.7	33.8	50.7	63.3	70.4
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	15.8	17.5	16.2	17.8	18.1	16.5	18.2	16.9	18.5	18.8
	3H	17.6	19.1	17.9	19.4	19.8	18.6	20.1	19.0	20.4	20.8
	4H	18.2	19.6	18.6	20.0	20.3	19.5	20.9	19.9	21.2	21.6
	6H	18.6	19.9	19.0	20.3	20.7	20.2	21.5	20.6	21.9	22.3
	8H	18.7	20.0	19.1	20.3	20.7	20.5	21.8	20.9	22.2	22.6
	12H	18.7	20.0	19.2	20.3	20.8	20.7	21.9	21.1	22.3	22.7
4H	2H	16.6	18.0	17.0	18.3	18.7	17.1	18.6	17.5	18.9	19.3
	3H	18.6	19.8	19.0	20.1	20.5	19.5	20.6	19.9	21.0	21.4
	4H	19.3	20.4	19.7	20.8	21.2	20.5	21.6	20.9	22.0	22.4
	6H	19.8	20.8	20.3	21.2	21.7	21.4	22.3	21.8	22.8	23.2
	8H	20.0	20.9	20.4	21.3	21.8	21.7	22.6	22.2	23.1	23.5
	12H	20.1	20.9	20.5	21.3	21.8	22.0	22.8	22.5	23.3	23.7
8H	4H	19.7	20.6	20.2	21.1	21.5	20.8	21.7	21.2	22.1	22.6
	6H	20.4	21.2	20.9	21.6	22.1	21.8	22.6	22.3	23.1	23.5
	8H	20.6	21.3	21.1	21.8	22.3	22.3	23.0	22.8	23.5	24.0
	12H	20.8	21.3	21.3	21.8	22.4	22.6	23.2	23.2	23.7	24.3
12H	4H	19.8	20.6	20.3	21.1	21.6	20.8	21.6	21.3	22.1	22.5
	6H	20.5	21.2	21.1	21.7	22.2	21.9	22.6	22.4	23.0	23.6
	8H	20.8	21.4	21.3	21.9	22.4	22.4	23.0	22.9	23.5	24.1

(END OF REPORT)