

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: P1589932

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589932
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-L830-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 6000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

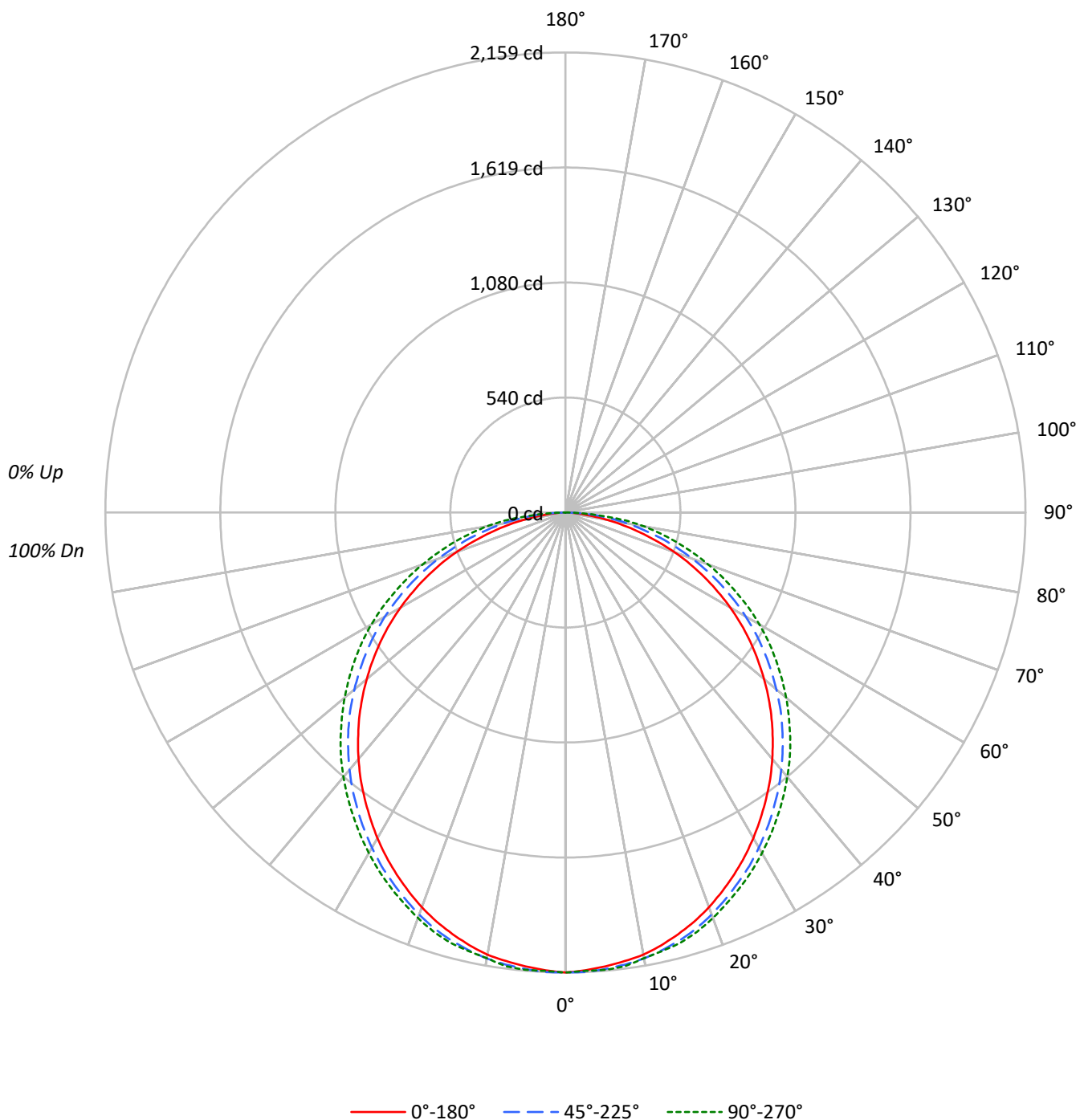
Lumens per Lamp: N/A
Luminaire Lumens: 6280.0 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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			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°	3306	3306	3306
5°	3288	3307	3313
10°	3278	3305	3303
15°	3248	3295	3314
20°	3213	3272	3301
25°	3167	3240	3281
30°	3120	3211	3264
35°	3069	3180	3248
40°	3020	3152	3239
45°	2964	3119	3231
50°	2900	3081	3222
55°	2828	3041	3218
60°	2739	2996	3220
65°	2614	2933	3202
70°	2444	2844	3194
75°	2166	2734	3206
80°	1763	2598	3301
85°	1139	2397	2849

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3345 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.3	3.3
10°-20°	585.0	9.3
20°-30°	882.1	14.0
30°-40°	1061.4	16.9
40°-50°	1107.1	17.6
50°-60°	1014.8	16.2
60°-70°	796.9	12.7
70°-80°	485.0	7.7
80°-90°	143.5	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°	1671.4	26.6
0°-40°	2732.8	43.5
0°-60°	4854.7	77.3
0°-90°	6280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6280.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2159	2159	2159	2159	2159	
5°	2139	2152	2151	2148	2155	203
15°	2048	2068	2078	2080	2090	578
25°	1874	1900	1917	1929	1941	864
35°	1641	1667	1701	1725	1737	1027
45°	1368	1397	1440	1474	1492	1055
55°	1059	1086	1139	1185	1205	946
65°	721	748	809	863	884	714
75°	366	400	462	517	542	388
85°	65	92	136	153	162	84
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2158.8	2158.8	2158.8	2158.8	2158.8
2.5°	2150.7	2161.5	2158.8	2149.4	2153.4
5°	2138.6	2152.1	2150.7	2148.0	2154.8
7.5°	2123.7	2138.6	2139.9	2139.9	2148.0
10°	2107.5	2122.4	2125.1	2121.0	2123.7
12.5°	2080.5	2098.1	2103.5	2103.5	2107.5
15°	2048.1	2068.3	2077.8	2080.5	2089.9
17.5°	2012.9	2034.6	2046.7	2053.5	2061.6
20°	1971.1	1994.0	2007.5	2015.6	2025.1
22.5°	1923.8	1949.4	1964.3	1972.4	1983.2
25°	1873.8	1899.5	1917.0	1929.2	1941.3
27.5°	1821.1	1845.4	1869.7	1884.6	1895.4
30°	1764.4	1790.0	1815.7	1834.6	1845.4
32.5°	1703.6	1730.6	1760.3	1780.6	1792.7
35°	1641.4	1667.1	1700.9	1725.2	1737.3
37.5°	1577.9	1604.9	1640.1	1665.7	1680.6
40°	1510.4	1538.8	1576.6	1604.9	1619.8
42.5°	1440.1	1467.2	1509.0	1541.5	1559.0
45°	1368.5	1396.9	1440.1	1473.9	1491.5
47.5°	1294.2	1321.2	1368.5	1407.7	1422.6
50°	1217.2	1242.9	1292.9	1334.8	1352.3
52.5°	1138.9	1165.9	1215.9	1260.5	1279.4
55°	1059.2	1086.2	1138.9	1184.8	1205.1
57.5°	978.1	1005.1	1059.2	1106.4	1130.8
60°	894.3	921.4	978.1	1026.7	1051.1
62.5°	807.9	836.2	894.3	944.3	970.0
65°	721.4	748.4	809.2	863.3	883.5
67.5°	635.0	662.0	721.4	775.5	799.8
70°	545.8	576.9	635.0	691.7	713.3
72.5°	452.6	487.7	545.8	605.2	626.8
75°	366.1	399.9	462.0	517.4	541.7
77.5°	281.0	317.5	375.6	432.3	456.6
80°	199.9	235.1	294.5	348.5	374.2
82.5°	127.0	158.1	217.5	266.1	285.1
85°	64.8	91.9	136.4	152.7	162.1
87.5°	18.9	32.4	48.6	60.8	67.5
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	17.3	16.0	17.6	17.9	16.4	18.0	16.8	18.4	18.7
	3H	17.4	18.9	17.8	19.3	19.6	18.5	20.0	18.8	20.3	20.7
	4H	18.0	19.5	18.4	19.8	20.2	19.3	20.8	19.7	21.1	21.5
	6H	18.5	19.8	18.9	20.1	20.5	20.1	21.4	20.5	21.8	22.2
	8H	18.6	19.8	19.0	20.2	20.6	20.4	21.6	20.8	22.0	22.4
	12H	18.6	19.8	19.0	20.2	20.6	20.6	21.8	21.0	22.2	22.6
4H	2H	16.4	17.8	16.8	18.2	18.6	17.0	18.4	17.4	18.8	19.1
	3H	18.4	19.6	18.8	20.0	20.4	19.3	20.5	19.7	20.9	21.3
	4H	19.2	20.2	19.6	20.7	21.1	20.3	21.4	20.8	21.8	22.3
	6H	19.7	20.6	20.1	21.1	21.5	21.2	22.2	21.7	22.6	23.1
	8H	19.8	20.7	20.3	21.2	21.6	21.6	22.5	22.1	22.9	23.4
	12H	19.9	20.7	20.4	21.2	21.7	21.9	22.7	22.3	23.1	23.6
8H	4H	19.6	20.5	20.1	20.9	21.4	20.6	21.5	21.1	22.0	22.4
	6H	20.3	21.0	20.8	21.5	22.0	21.7	22.4	22.2	22.9	23.4
	8H	20.5	21.1	21.0	21.6	22.1	22.2	22.8	22.7	23.3	23.8
	12H	20.6	21.2	21.1	21.7	22.2	22.5	23.1	23.0	23.6	24.1
12H	4H	19.7	20.5	20.2	21.0	21.4	20.6	21.5	21.1	21.9	22.4
	6H	20.4	21.1	20.9	21.5	22.1	21.7	22.4	22.3	22.9	23.4
	8H	20.7	21.3	21.2	21.7	22.3	22.3	22.9	22.8	23.3	23.9

(END OF REPORT)