

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: P1589939

Luminaire Tested: 24CZSP-SB-65-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589939
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-65-L845
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 6000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

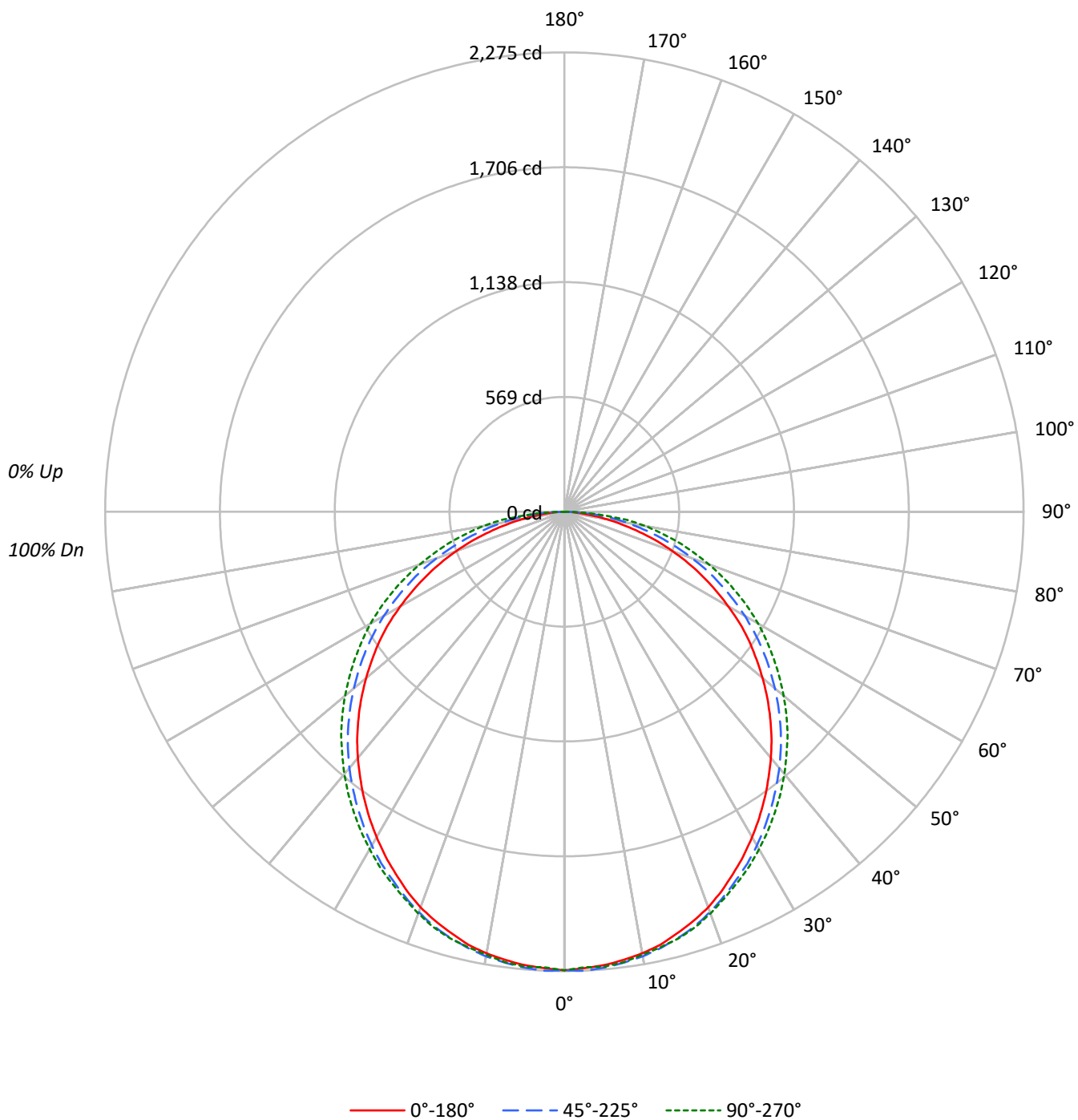
Lumens per Lamp: N/A
Luminaire Lumens: 6627.0 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3478	3478	3478
5°	3465	3485	3476
10°	3453	3477	3464
15°	3427	3463	3467
20°	3397	3438	3450
25°	3342	3401	3425
30°	3289	3374	3411
35°	3236	3341	3399
40°	3183	3312	3390
45°	3123	3281	3387
50°	3055	3245	3379
55°	2985	3210	3378
60°	2874	3162	3399
65°	2740	3101	3401
70°	2557	3015	3411
75°	2274	2905	3470
80°	1868	2784	3600
85°	1232	2613	3253

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3687 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.8	3.2
10°-20°	614.8	9.3
20°-30°	926.7	14.0
30°-40°	1116.0	16.8
40°-50°	1165.9	17.6
50°-60°	1071.2	16.2
60°-70°	843.5	12.7
70°-80°	517.2	7.8
80°-90°	156.8	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°	1756.4	26.5
0°-40°	2872.4	43.3
0°-60°	5109.5	77.1
0°-90°	6627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6627.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2271	2271	2271	2271	2271	
5°	2254	2258	2267	2264	2261	214
15°	2161	2170	2184	2192	2187	610
25°	1978	1990	2013	2034	2027	912
35°	1731	1753	1787	1819	1818	1083
45°	1442	1473	1515	1557	1564	1112
55°	1118	1150	1202	1254	1265	997
65°	756	795	856	913	938	747
75°	384	429	491	550	586	409
85°	70	104	149	166	185	90
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2270.8	2270.8	2270.8	2270.8	2270.8
2.5°	2262.4	2268.0	2275.0	2263.8	2258.2
5°	2254.0	2258.2	2266.6	2263.8	2261.0
7.5°	2238.5	2241.4	2252.6	2252.6	2249.8
10°	2220.3	2225.9	2235.7	2234.3	2227.3
12.5°	2196.5	2200.7	2211.9	2211.9	2207.7
15°	2161.4	2169.8	2183.8	2192.3	2186.7
17.5°	2124.9	2133.4	2151.6	2160.0	2157.2
20°	2084.3	2091.3	2109.5	2122.1	2116.5
22.5°	2033.8	2042.2	2063.2	2077.2	2071.6
25°	1977.7	1990.3	2012.7	2033.8	2026.8
27.5°	1921.6	1935.6	1963.6	1984.7	1981.9
30°	1859.8	1878.1	1907.5	1934.2	1928.6
32.5°	1796.7	1817.8	1848.6	1876.7	1875.3
35°	1730.8	1753.2	1786.9	1819.2	1817.8
37.5°	1660.7	1687.3	1722.4	1757.5	1758.9
40°	1591.9	1617.2	1656.5	1694.3	1695.7
42.5°	1519.0	1545.7	1587.7	1627.0	1628.4
45°	1441.9	1472.7	1514.8	1556.9	1563.9
47.5°	1363.3	1395.6	1439.1	1483.9	1492.4
50°	1282.0	1315.6	1361.9	1409.6	1418.0
52.5°	1199.2	1234.3	1282.0	1329.7	1342.3
55°	1117.9	1150.1	1202.0	1253.9	1265.1
57.5°	1032.3	1061.8	1117.9	1172.6	1186.6
60°	938.3	974.8	1032.3	1087.0	1109.5
62.5°	847.2	886.4	945.4	1000.1	1025.3
65°	756.0	795.3	855.6	913.1	938.3
67.5°	663.4	704.1	768.6	823.3	851.4
70°	570.9	611.5	673.2	732.2	761.6
72.5°	478.3	521.8	582.1	642.4	671.8
75°	384.3	429.2	490.9	549.8	586.3
77.5°	295.9	339.4	401.1	461.5	492.3
80°	211.8	255.3	315.6	375.9	408.2
82.5°	134.6	175.3	234.2	284.7	314.2
85°	70.1	103.8	148.7	165.5	185.1
87.5°	21.0	40.7	57.5	64.5	79.9
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	16.6	18.3	17.0	18.6	18.9
	3H	17.6	19.1	18.0	19.4	19.8	18.7	20.2	19.1	20.5	20.9
	4H	18.2	19.7	18.6	20.0	20.4	19.6	21.0	20.0	21.3	21.7
	6H	18.6	20.0	19.1	20.3	20.7	20.3	21.7	20.7	22.0	22.4
	8H	18.7	20.0	19.2	20.4	20.8	20.6	21.9	21.1	22.3	22.7
	12H	18.8	20.0	19.2	20.4	20.8	20.9	22.1	21.3	22.5	22.9
4H	2H	16.6	18.0	17.0	18.4	18.8	17.2	18.6	17.6	19.0	19.3
	3H	18.6	19.8	19.0	20.2	20.6	19.5	20.7	19.9	21.1	21.5
	4H	19.4	20.4	19.8	20.9	21.3	20.6	21.6	21.0	22.1	22.5
	6H	19.9	20.9	20.4	21.3	21.7	21.5	22.4	21.9	22.9	23.3
	8H	20.0	20.9	20.5	21.4	21.8	21.9	22.8	22.3	23.2	23.7
	12H	20.1	20.9	20.6	21.4	21.9	22.1	23.0	22.6	23.4	23.9
8H	4H	19.8	20.7	20.3	21.1	21.6	20.9	21.7	21.3	22.2	22.7
	6H	20.5	21.2	21.0	21.7	22.2	21.9	22.7	22.4	23.2	23.6
	8H	20.7	21.4	21.2	21.9	22.4	22.4	23.1	22.9	23.6	24.1
	12H	20.9	21.5	21.4	21.9	22.5	22.8	23.4	23.3	23.9	24.4
12H	4H	19.9	20.7	20.4	21.2	21.6	20.9	21.7	21.4	22.2	22.6
	6H	20.6	21.3	21.2	21.8	22.3	22.0	22.7	22.5	23.1	23.7
	8H	20.9	21.5	21.4	22.0	22.6	22.5	23.1	23.1	23.6	24.2

(END OF REPORT)