

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: P1590039

Luminaire Tested: 24CZSP-SB-80-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590039
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-80-L845
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 8000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

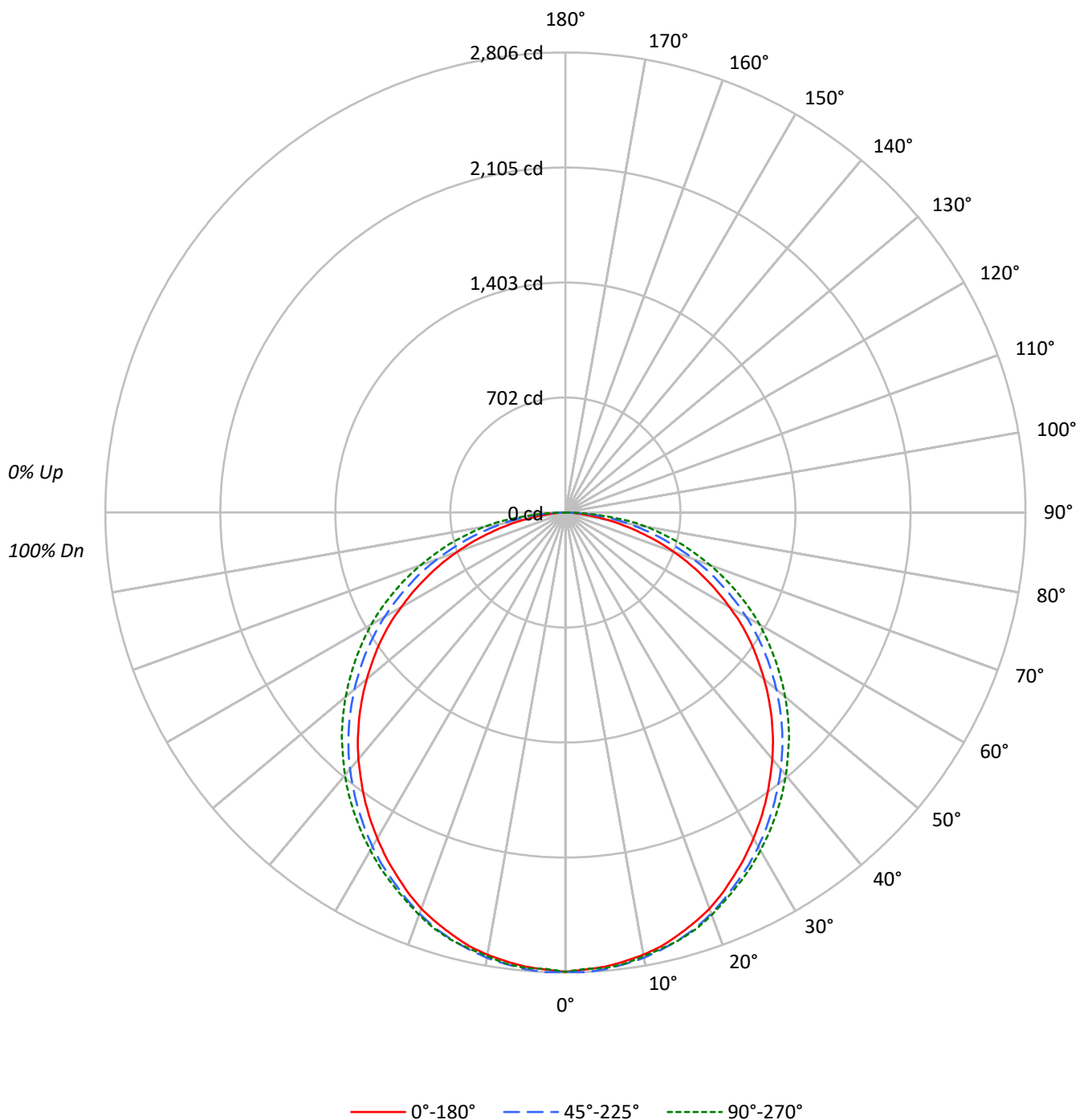
Lumens per Lamp: N/A
Luminaire Lumens: 8175.0 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 62.7
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°	4290	4290	4290
5°	4275	4299	4288
10°	4260	4289	4273
15°	4228	4272	4277
20°	4191	4242	4256
25°	4123	4196	4225
30°	4058	4162	4208
35°	3992	4122	4193
40°	3926	4086	4183
45°	3853	4048	4179
50°	3768	4003	4168
55°	3682	3960	4168
60°	3546	3901	4192
65°	3380	3825	4195
70°	3154	3719	4207
75°	2806	3584	4280
80°	2305	3434	4441
85°	1520	3223	4014

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4548 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.0	3.2
10°-20°	758.5	9.3
20°-30°	1143.2	14.0
30°-40°	1376.7	16.8
40°-50°	1438.3	17.6
50°-60°	1321.4	16.2
60°-70°	1040.6	12.7
70°-80°	638.0	7.8
80°-90°	193.4	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°	2166.7	26.5
0°-40°	3543.4	43.3
0°-60°	6303.1	77.1
0°-90°	8175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8175.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2801	2801	2801	2801	2801	
5°	2780	2786	2796	2793	2789	264
15°	2666	2677	2694	2704	2697	752
25°	2440	2455	2483	2509	2500	1125
35°	2135	2163	2204	2244	2242	1335
45°	1779	1817	1869	1921	1929	1372
55°	1379	1419	1483	1547	1561	1230
65°	933	981	1055	1126	1158	922
75°	474	530	606	678	723	504
85°	86	128	183	204	228	111
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2801.2	2801.2	2801.2	2801.2	2801.2
2.5°	2790.9	2797.8	2806.4	2792.6	2785.7
5°	2780.5	2785.7	2796.1	2792.6	2789.1
7.5°	2761.4	2764.9	2778.8	2778.8	2775.3
10°	2739.0	2745.9	2758.0	2756.3	2747.6
12.5°	2709.5	2714.7	2728.6	2728.6	2723.4
15°	2666.3	2676.7	2694.0	2704.4	2697.4
17.5°	2621.3	2631.7	2654.2	2664.6	2661.1
20°	2571.1	2579.8	2602.3	2617.8	2610.9
22.5°	2508.8	2519.2	2545.2	2562.5	2555.6
25°	2439.6	2455.2	2482.9	2508.8	2500.2
27.5°	2370.4	2387.7	2422.3	2448.3	2444.8
30°	2294.3	2316.8	2353.1	2386.0	2379.1
32.5°	2216.4	2242.4	2280.4	2315.1	2313.3
35°	2135.1	2162.8	2204.3	2244.1	2242.4
37.5°	2048.6	2081.5	2124.7	2168.0	2169.7
40°	1963.8	1995.0	2043.4	2090.1	2091.9
42.5°	1873.8	1906.7	1958.6	2007.1	2008.8
45°	1778.7	1816.7	1868.7	1920.6	1929.2
47.5°	1681.8	1721.6	1775.2	1830.6	1841.0
50°	1581.4	1623.0	1680.1	1738.9	1749.3
52.5°	1479.3	1522.6	1581.4	1640.3	1655.8
55°	1379.0	1418.8	1482.8	1546.8	1560.7
57.5°	1273.5	1309.8	1379.0	1446.5	1463.8
60°	1157.5	1202.5	1273.5	1340.9	1368.6
62.5°	1045.1	1093.5	1166.2	1233.7	1264.8
65°	932.6	981.0	1055.4	1126.4	1157.5
67.5°	818.4	868.6	948.2	1015.6	1050.3
70°	704.2	754.4	830.5	903.2	939.5
72.5°	590.0	643.6	718.0	792.4	828.8
75°	474.1	529.5	605.6	678.3	723.2
77.5°	365.1	418.7	494.8	569.2	607.3
80°	261.3	314.9	389.3	463.7	503.5
82.5°	166.1	216.3	288.9	351.2	387.6
85°	86.5	128.0	183.4	204.2	228.4
87.5°	26.0	50.2	70.9	79.6	98.6
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	16.6	18.2	16.9	18.6	18.9	17.3	19.0	17.7	19.3	19.6
	3H	18.3	19.8	18.7	20.2	20.5	19.4	20.9	19.8	21.2	21.6
	4H	19.0	20.4	19.4	20.7	21.1	20.3	21.7	20.7	22.1	22.4
	6H	19.4	20.7	19.8	21.1	21.4	21.1	22.4	21.5	22.8	23.1
	8H	19.5	20.7	19.9	21.1	21.5	21.4	22.6	21.8	23.0	23.4
	12H	19.5	20.7	20.0	21.1	21.6	21.6	22.8	22.0	23.2	23.6
4H	2H	17.3	18.8	17.7	19.1	19.5	17.9	19.3	18.3	19.7	20.1
	3H	19.3	20.5	19.7	20.9	21.3	20.3	21.5	20.7	21.8	22.2
	4H	20.1	21.2	20.5	21.6	22.0	21.3	22.4	21.7	22.8	23.2
	6H	20.6	21.6	21.1	22.0	22.5	22.2	23.2	22.7	23.6	24.1
	8H	20.8	21.7	21.2	22.1	22.6	22.6	23.5	23.1	23.9	24.4
	12H	20.9	21.7	21.3	22.1	22.6	22.9	23.7	23.4	24.2	24.6
8H	4H	20.5	21.4	21.0	21.9	22.3	21.6	22.5	22.0	22.9	23.4
	6H	21.2	22.0	21.7	22.5	22.9	22.7	23.4	23.2	23.9	24.4
	8H	21.4	22.1	21.9	22.6	23.1	23.2	23.8	23.7	24.3	24.8
	12H	21.6	22.2	22.1	22.7	23.2	23.5	24.1	24.0	24.6	25.2
12H	4H	20.6	21.4	21.1	21.9	22.4	21.6	22.4	22.1	22.9	23.4
	6H	21.4	22.0	21.9	22.5	23.0	22.7	23.4	23.3	23.9	24.4
	8H	21.6	22.2	22.1	22.7	23.3	23.3	23.9	23.8	24.4	24.9

(END OF REPORT)