

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P1589750

Luminaire Tested: 24CZSP-SB-42-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589750
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-42-L950-S
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

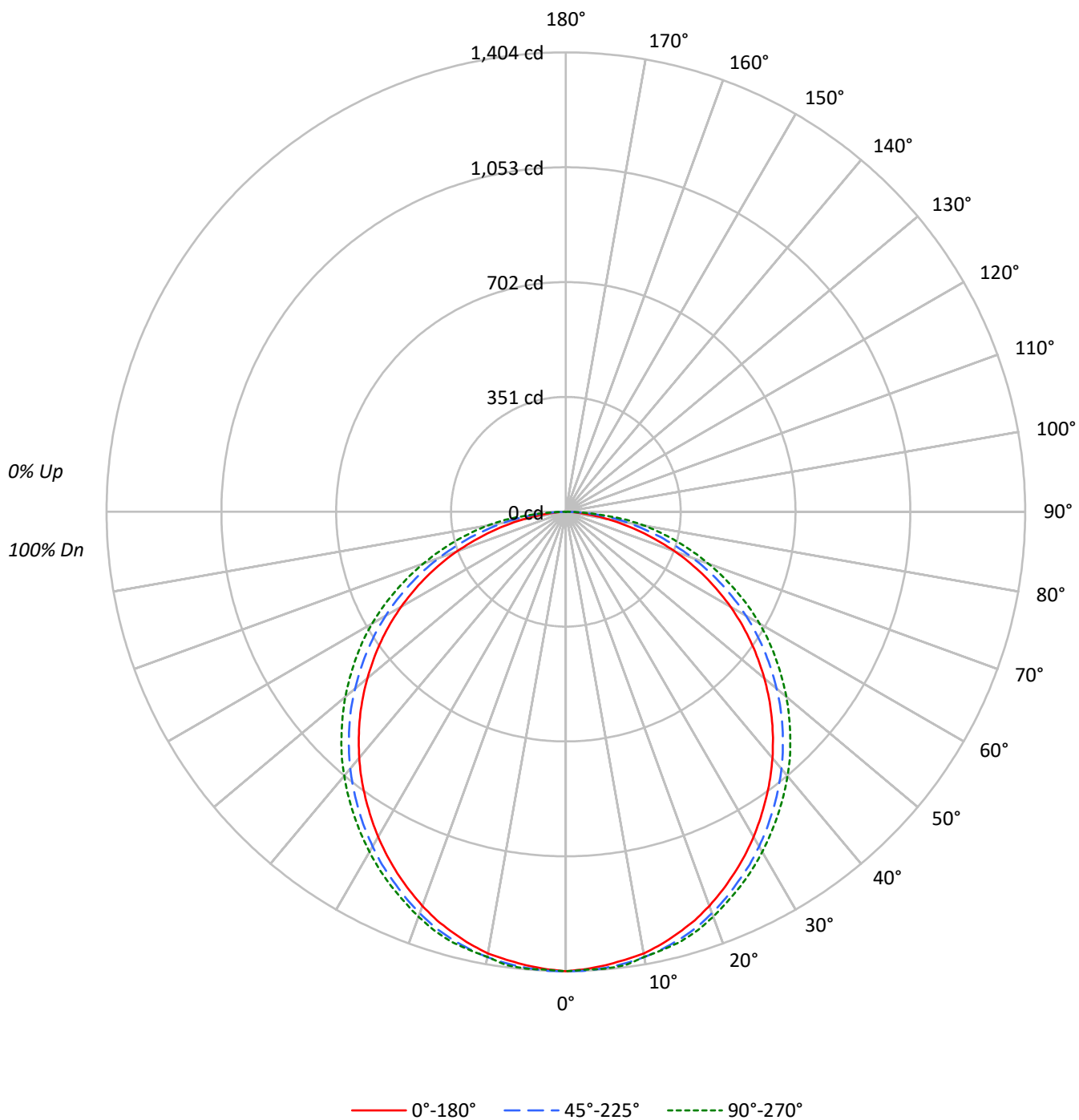
Lumens per Lamp: N/A
Luminaire Lumens: 4085.0 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.7
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: 24 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°	2151	2151	2151
5°	2139	2151	2155
10°	2132	2150	2148
15°	2112	2143	2156
20°	2090	2129	2147
25°	2060	2107	2134
30°	2030	2089	2123
35°	1996	2069	2113
40°	1964	2050	2107
45°	1928	2029	2101
50°	1887	2004	2096
55°	1840	1978	2093
60°	1782	1949	2094
65°	1701	1908	2083
70°	1590	1849	2078
75°	1409	1778	2085
80°	1148	1690	2147
85°	742	1561	1854

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2176 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.9	3.3
10°-20°	380.6	9.3
20°-30°	573.8	14.0
30°-40°	690.4	16.9
40°-50°	720.2	17.6
50°-60°	660.1	16.2
60°-70°	518.3	12.7
70°-80°	315.5	7.7
80°-90°	93.3	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°	1087.2	26.6
0°-40°	1777.6	43.5
0°-60°	3157.9	77.3
0°-90°	4085.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4085.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1404	1404	1404	1404	1404	
5°	1391	1400	1399	1397	1402	132
15°	1332	1345	1352	1353	1360	376
25°	1219	1236	1247	1255	1263	562
35°	1068	1084	1106	1122	1130	668
45°	890	909	937	959	970	686
55°	689	706	741	771	784	616
65°	469	487	526	562	575	464
75°	238	260	300	337	352	252
85°	42	60	89	99	106	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1404.3	1404.3	1404.3	1404.3	1404.3
2.5°	1399.0	1406.0	1404.3	1398.1	1400.8
5°	1391.1	1399.9	1399.0	1397.3	1401.6
7.5°	1381.4	1391.1	1392.0	1392.0	1397.3
10°	1370.9	1380.6	1382.3	1379.7	1381.4
12.5°	1353.3	1364.7	1368.3	1368.3	1370.9
15°	1332.2	1345.4	1351.6	1353.3	1359.5
17.5°	1309.4	1323.4	1331.3	1335.7	1341.0
20°	1282.1	1297.1	1305.9	1311.1	1317.3
22.5°	1251.4	1268.1	1277.7	1283.0	1290.0
25°	1218.9	1235.6	1247.0	1254.9	1262.8
27.5°	1184.6	1200.4	1216.2	1225.9	1232.9
30°	1147.7	1164.4	1181.1	1193.4	1200.4
32.5°	1108.1	1125.7	1145.0	1158.2	1166.1
35°	1067.7	1084.4	1106.4	1122.2	1130.1
37.5°	1026.4	1044.0	1066.8	1083.5	1093.2
40°	982.5	1000.9	1025.5	1044.0	1053.7
42.5°	936.8	954.3	981.6	1002.7	1014.1
45°	890.2	908.7	936.8	958.7	970.2
47.5°	841.9	859.4	890.2	915.7	925.3
50°	791.8	808.5	841.0	868.2	879.7
52.5°	740.8	758.4	790.9	819.9	832.2
55°	689.0	706.5	740.8	770.7	783.9
57.5°	636.2	653.8	689.0	719.7	735.5
60°	581.7	599.3	636.2	667.9	683.7
62.5°	525.5	544.0	581.7	614.3	631.0
65°	469.3	486.8	526.4	561.5	574.7
67.5°	413.0	430.6	469.3	504.4	520.2
70°	355.0	375.2	413.0	449.9	464.0
72.5°	294.4	317.2	355.0	393.7	407.8
75°	238.1	260.1	300.5	336.6	352.4
77.5°	182.8	206.5	244.3	281.2	297.0
80°	130.1	152.9	191.6	226.7	243.4
82.5°	82.6	102.8	141.5	173.1	185.4
85°	42.2	59.8	88.8	99.3	105.5
87.5°	12.3	21.1	31.6	39.5	43.9
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	14.16	15.82	14.52	16.13	16.45	14.90	16.56	15.26	16.87	17.18
	3H	15.93	17.43	16.31	17.76	18.12	16.97	18.48	17.35	18.81	19.17
	4H	16.55	17.97	16.95	18.31	18.69	17.84	19.26	18.24	19.61	19.98
	6H	16.96	18.27	17.37	18.64	19.03	18.58	19.90	18.99	20.27	20.66
	8H	17.06	18.32	17.48	18.71	19.11	18.88	20.14	19.30	20.53	20.93
	12H	17.11	18.32	17.54	18.70	19.13	19.07	20.28	19.50	20.66	21.09
4H	2H	14.93	16.35	15.33	16.70	17.07	15.50	16.92	15.90	17.27	17.64
	3H	16.92	18.12	17.33	18.51	18.91	17.81	19.01	18.22	19.40	19.80
	4H	17.66	18.75	18.09	19.16	19.59	18.83	19.92	19.26	20.33	20.76
	6H	18.19	19.14	18.64	19.58	20.03	19.74	20.69	20.19	21.13	21.58
	8H	18.33	19.22	18.79	19.66	20.13	20.10	20.99	20.56	21.43	21.90
	12H	18.41	19.21	18.89	19.69	20.16	20.36	21.16	20.84	21.63	22.10
8H	4H	18.11	19.00	18.57	19.44	19.90	19.13	20.02	19.59	20.46	20.92
	6H	18.77	19.51	19.26	20.00	20.47	20.19	20.93	20.68	21.41	21.89
	8H	18.98	19.65	19.49	20.15	20.64	20.66	21.32	21.17	21.83	22.31
	12H	19.12	19.71	19.62	20.20	20.76	21.01	21.60	21.52	22.09	22.65
12H	4H	18.19	18.99	18.67	19.46	19.93	19.16	19.96	19.63	20.43	20.90
	6H	18.89	19.56	19.40	20.07	20.55	20.24	20.90	20.74	21.41	21.89
	8H	19.17	19.76	19.68	20.25	20.81	20.77	21.36	21.28	21.85	22.41