

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: P1589745

Luminaire Tested: 24CZSP-SB-42-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589745
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-42-L935
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

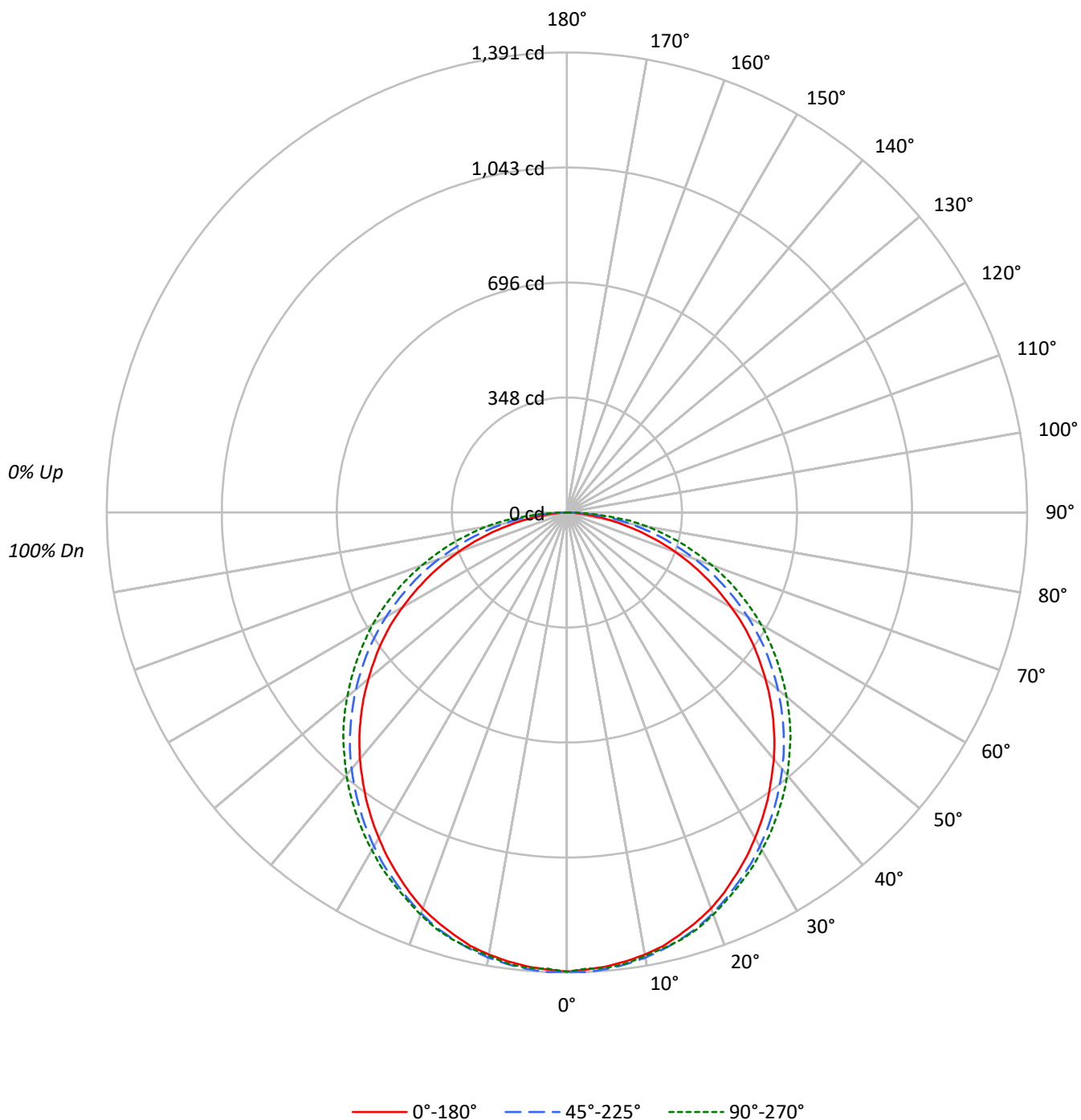
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4051.0 lumens
Efficiency: N/A
Efficacy: 141.2 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): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	2126	2126	2126
5°	2118	2130	2125
10°	2111	2126	2117
15°	2095	2117	2120
20°	2077	2102	2109
25°	2043	2079	2094
30°	2011	2062	2085
35°	1978	2042	2078
40°	1946	2025	2073
45°	1909	2006	2071
50°	1867	1984	2065
55°	1825	1962	2065
60°	1757	1933	2077
65°	1675	1895	2079
70°	1563	1843	2085
75°	1390	1776	2121
80°	1142	1701	2201
85°	754	1597	1989

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2254 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	3.2
10°-20°	375.8	9.3
20°-30°	566.5	14.0
30°-40°	682.2	16.8
40°-50°	712.7	17.6
50°-60°	654.8	16.2
60°-70°	515.6	12.7
70°-80°	316.1	7.8
80°-90°	95.9	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°	1073.6	26.5
0°-40°	1755.8	43.3
0°-60°	3123.4	77.1
0°-90°	4051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4051.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1388	1388	1388	1388	1388	
5°	1378	1380	1386	1384	1382	131
15°	1321	1326	1335	1340	1337	373
25°	1209	1217	1230	1243	1239	557
35°	1058	1072	1092	1112	1111	662
45°	881	900	926	952	956	680
55°	683	703	735	766	773	610
65°	462	486	523	558	574	457
75°	235	262	300	336	358	250
85°	43	63	91	101	113	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1388.1	1388.1	1388.1	1388.1	1388.1
2.5°	1383.0	1386.4	1390.7	1383.8	1380.4
5°	1377.8	1380.4	1385.5	1383.8	1382.1
7.5°	1368.4	1370.1	1377.0	1377.0	1375.3
10°	1357.2	1360.7	1366.7	1365.8	1361.5
12.5°	1342.7	1345.2	1352.1	1352.1	1349.5
15°	1321.2	1326.4	1335.0	1340.1	1336.7
17.5°	1298.9	1304.1	1315.2	1320.4	1318.7
20°	1274.1	1278.4	1289.5	1297.2	1293.8
22.5°	1243.2	1248.4	1261.2	1269.8	1266.4
25°	1208.9	1216.6	1230.4	1243.2	1238.9
27.5°	1174.6	1183.2	1200.3	1213.2	1211.5
30°	1136.9	1148.0	1166.1	1182.3	1178.9
32.5°	1098.3	1111.2	1130.0	1147.2	1146.3
35°	1058.0	1071.7	1092.3	1112.0	1111.2
37.5°	1015.2	1031.4	1052.9	1074.3	1075.2
40°	973.1	988.6	1012.6	1035.7	1036.6
42.5°	928.6	944.8	970.6	994.6	995.4
45°	881.4	900.3	926.0	951.7	956.0
47.5°	833.4	853.1	879.7	907.1	912.3
50°	783.7	804.2	832.5	861.7	866.8
52.5°	733.1	754.5	783.7	812.8	820.5
55°	683.3	703.1	734.8	766.5	773.4
57.5°	631.0	649.0	683.3	716.8	725.4
60°	573.6	595.9	631.0	664.5	678.2
62.5°	517.9	541.9	577.9	611.3	626.8
65°	462.1	486.1	523.0	558.2	573.6
67.5°	405.5	430.4	469.9	503.3	520.4
70°	349.0	373.8	411.5	447.6	465.6
72.5°	292.4	318.9	355.8	392.7	410.7
75°	234.9	262.4	300.1	336.1	358.4
77.5°	180.9	207.5	245.2	282.1	300.9
80°	129.5	156.0	192.9	229.8	249.5
82.5°	82.3	107.2	143.2	174.1	192.1
85°	42.9	63.4	90.9	101.2	113.2
87.5°	12.9	24.9	35.2	39.4	48.9
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	14.13	15.80	14.50	16.11	16.42	14.88	16.54	15.25	16.86	17.17
	3H	15.90	17.40	16.27	17.73	18.09	16.98	18.48	17.35	18.81	19.17
	4H	16.52	17.94	16.92	18.29	18.67	17.86	19.28	18.26	19.63	20.00
	6H	16.93	18.25	17.34	18.62	19.01	18.63	19.95	19.04	20.31	20.70
	8H	17.04	18.30	17.46	18.69	19.09	18.94	20.20	19.36	20.59	20.99
	12H	17.09	18.30	17.52	18.68	19.11	19.15	20.36	19.58	20.74	21.17
4H	2H	14.90	16.33	15.30	16.67	17.05	15.48	16.91	15.88	17.25	17.63
	3H	16.90	18.10	17.31	18.49	18.89	17.81	19.01	18.22	19.41	19.81
	4H	17.65	18.74	18.08	19.15	19.58	18.85	19.93	19.28	20.35	20.78
	6H	18.19	19.14	18.64	19.58	20.03	19.78	20.73	20.23	21.17	21.62
	8H	18.34	19.23	18.79	19.67	20.13	20.16	21.05	20.62	21.50	21.96
	12H	18.42	19.22	18.90	19.70	20.17	20.44	21.24	20.92	21.72	22.18
8H	4H	18.10	19.00	18.56	19.44	19.90	19.15	20.04	19.61	20.48	20.94
	6H	18.78	19.53	19.27	20.01	20.49	20.23	20.98	20.72	21.46	21.94
	8H	19.00	19.67	19.51	20.18	20.66	20.72	21.39	21.23	21.89	22.38
	12H	19.15	19.74	19.65	20.23	20.79	21.09	21.69	21.60	22.18	22.73
12H	4H	18.19	18.99	18.67	19.46	19.93	19.17	19.98	19.65	20.45	20.92
	6H	18.91	19.58	19.42	20.08	20.57	20.28	20.95	20.79	21.46	21.94
	8H	19.20	19.79	19.71	20.28	20.84	20.84	21.43	21.34	21.92	22.48