

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: P1589785

Luminaire Tested: 24CZSP-SB-47-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589785
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-47-L935
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

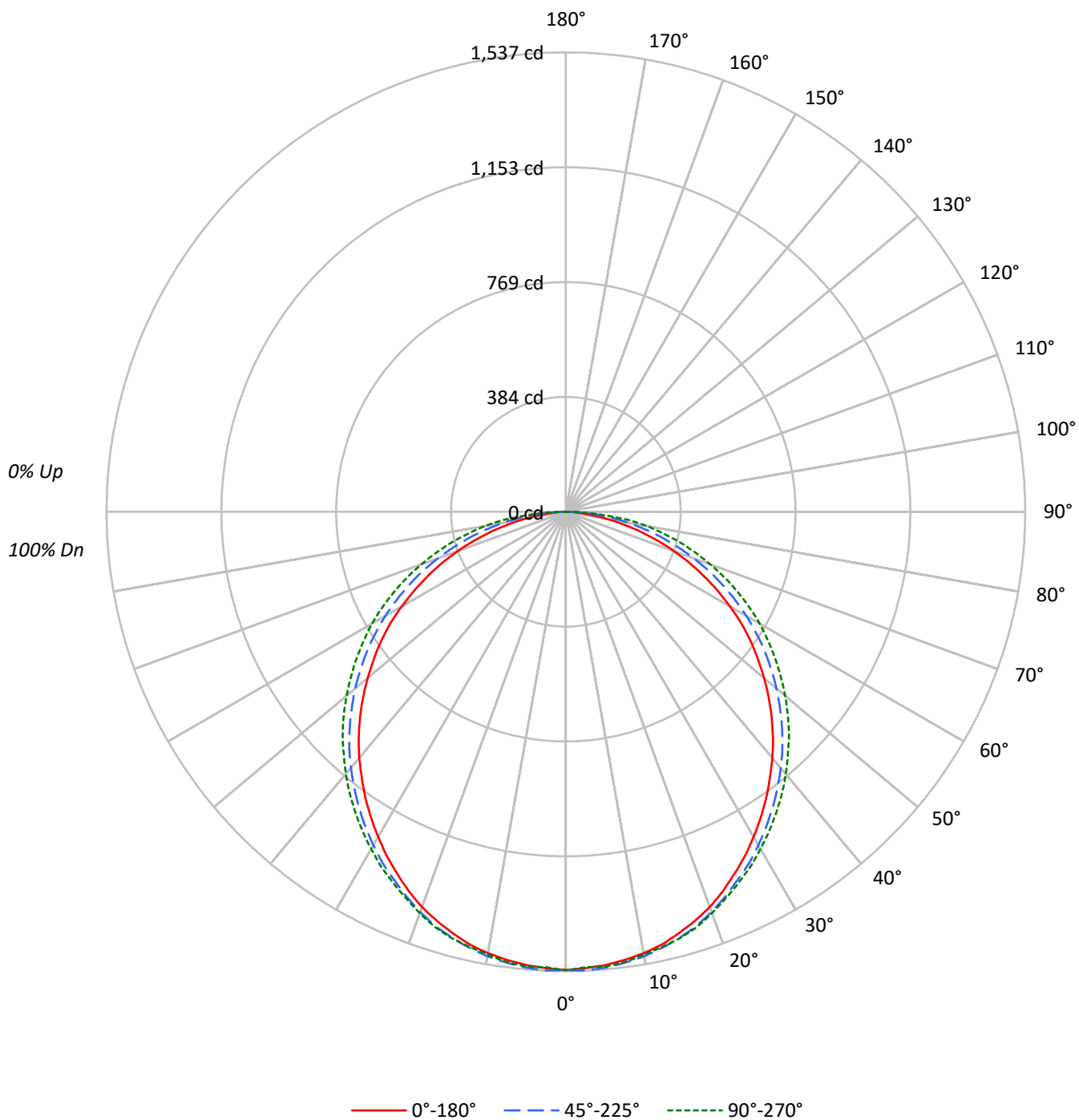
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4476.0 lumens
Efficiency: N/A
Efficacy: 139.0 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): 32.2
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°	2349	2349	2349
5°	2341	2354	2348
10°	2332	2349	2340
15°	2315	2339	2342
20°	2294	2322	2330
25°	2257	2297	2313
30°	2222	2279	2304
35°	2186	2257	2296
40°	2150	2237	2290
45°	2110	2216	2288
50°	2063	2192	2282
55°	2016	2168	2282
60°	1941	2136	2295
65°	1850	2094	2297
70°	1727	2036	2304
75°	1536	1962	2343
80°	1261	1880	2432
85°	833	1764	2197

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2490 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	3.2
10°-20°	415.3	9.3
20°-30°	625.9	14.0
30°-40°	753.8	16.8
40°-50°	787.5	17.6
50°-60°	723.5	16.2
60°-70°	569.7	12.7
70°-80°	349.3	7.8
80°-90°	105.9	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°	1186.3	26.5
0°-40°	1940.1	43.3
0°-60°	3451.1	77.1
0°-90°	4476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4476.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1534	1534	1534	1534	1534	
5°	1522	1525	1531	1529	1527	145
15°	1460	1466	1475	1481	1477	412
25°	1336	1344	1359	1374	1369	616
35°	1169	1184	1207	1229	1228	731
45°	974	995	1023	1052	1056	751
55°	755	777	812	847	854	674
65°	511	537	578	617	634	505
75°	260	290	332	371	396	276
85°	47	70	100	112	125	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1533.7	1533.7	1533.7	1533.7	1533.7
2.5°	1528.1	1531.9	1536.6	1529.0	1525.2
5°	1522.4	1525.2	1530.9	1529.0	1527.1
7.5°	1512.0	1513.9	1521.4	1521.4	1519.5
10°	1499.6	1503.4	1510.1	1509.1	1504.4
12.5°	1483.5	1486.4	1494.0	1494.0	1491.1
15°	1459.9	1465.5	1475.0	1480.7	1476.9
17.5°	1435.2	1440.9	1453.2	1458.9	1457.0
20°	1407.7	1412.5	1424.8	1433.3	1429.5
22.5°	1373.6	1379.3	1393.5	1403.0	1399.2
25°	1335.8	1344.3	1359.4	1373.6	1368.9
27.5°	1297.9	1307.3	1326.3	1340.5	1338.6
30°	1256.2	1268.5	1288.4	1306.4	1302.6
32.5°	1213.5	1227.8	1248.6	1267.5	1266.6
35°	1169.0	1184.2	1206.9	1228.7	1227.8
37.5°	1121.7	1139.7	1163.3	1187.0	1188.0
40°	1075.2	1092.3	1118.8	1144.4	1145.3
42.5°	1026.0	1044.0	1072.4	1098.9	1099.9
45°	973.9	994.7	1023.1	1051.5	1056.3
47.5°	920.8	942.6	972.0	1002.3	1008.0
50°	865.9	888.6	919.9	952.1	957.8
52.5°	810.0	833.7	865.9	898.1	906.6
55°	755.0	776.8	811.9	846.9	854.5
57.5°	697.2	717.1	755.0	792.0	801.5
60°	633.8	658.4	697.2	734.2	749.3
62.5°	572.2	598.7	638.5	675.5	692.5
65°	510.6	537.1	577.9	616.7	633.8
67.5°	448.1	475.6	519.1	556.1	575.0
70°	385.6	413.0	454.7	494.5	514.4
72.5°	323.0	352.4	393.1	433.9	453.8
75°	259.6	289.9	331.6	371.4	396.0
77.5°	199.9	229.3	270.9	311.7	332.5
80°	143.0	172.4	213.2	253.9	275.7
82.5°	90.9	118.4	158.2	192.3	212.2
85°	47.4	70.1	100.4	111.8	125.0
87.5°	14.2	27.5	38.8	43.6	54.0
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	14.48	16.14	14.85	16.46	16.77	15.23	16.89	15.59	17.20	17.52
	3H	16.24	17.75	16.62	18.08	18.44	17.32	18.83	17.70	19.16	19.52
	4H	16.87	18.29	17.27	18.64	19.01	18.21	19.63	18.60	19.98	20.35
	6H	17.28	18.60	17.69	18.96	19.35	18.97	20.29	19.38	20.66	21.05
	8H	17.39	18.65	17.81	19.04	19.44	19.29	20.55	19.71	20.94	21.33
	12H	17.44	18.65	17.87	19.03	19.46	19.50	20.71	19.93	21.09	21.52
4H	2H	15.25	16.67	15.65	17.02	17.40	15.83	17.25	16.23	17.60	17.98
	3H	17.24	18.44	17.65	18.84	19.24	18.16	19.36	18.57	19.75	20.15
	4H	18.00	19.08	18.43	19.50	19.93	19.19	20.28	19.62	20.69	21.13
	6H	18.53	19.49	18.99	19.93	20.38	20.12	21.08	20.58	21.52	21.97
	8H	18.68	19.57	19.14	20.02	20.48	20.51	21.40	20.97	21.84	22.31
	12H	18.77	19.57	19.25	20.05	20.51	20.78	21.59	21.26	22.06	22.53
8H	4H	18.45	19.34	18.91	19.78	20.25	19.49	20.39	19.95	20.83	21.29
	6H	19.13	19.87	19.62	20.36	20.83	20.58	21.32	21.07	21.81	22.28
	8H	19.35	20.02	19.86	20.52	21.01	21.07	21.73	21.57	22.24	22.72
	12H	19.50	20.09	20.00	20.58	21.14	21.44	22.03	21.95	22.52	23.08
12H	4H	18.53	19.34	19.01	19.81	20.28	19.52	20.33	20.00	20.80	21.27
	6H	19.26	19.93	19.76	20.43	20.91	20.63	21.30	21.14	21.81	22.29
	8H	19.55	20.14	20.05	20.63	21.19	21.18	21.78	21.69	22.27	22.82