

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: P1589763

Luminaire Tested: 24CZSP-SB-43HE-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589763
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-43HE-L930
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

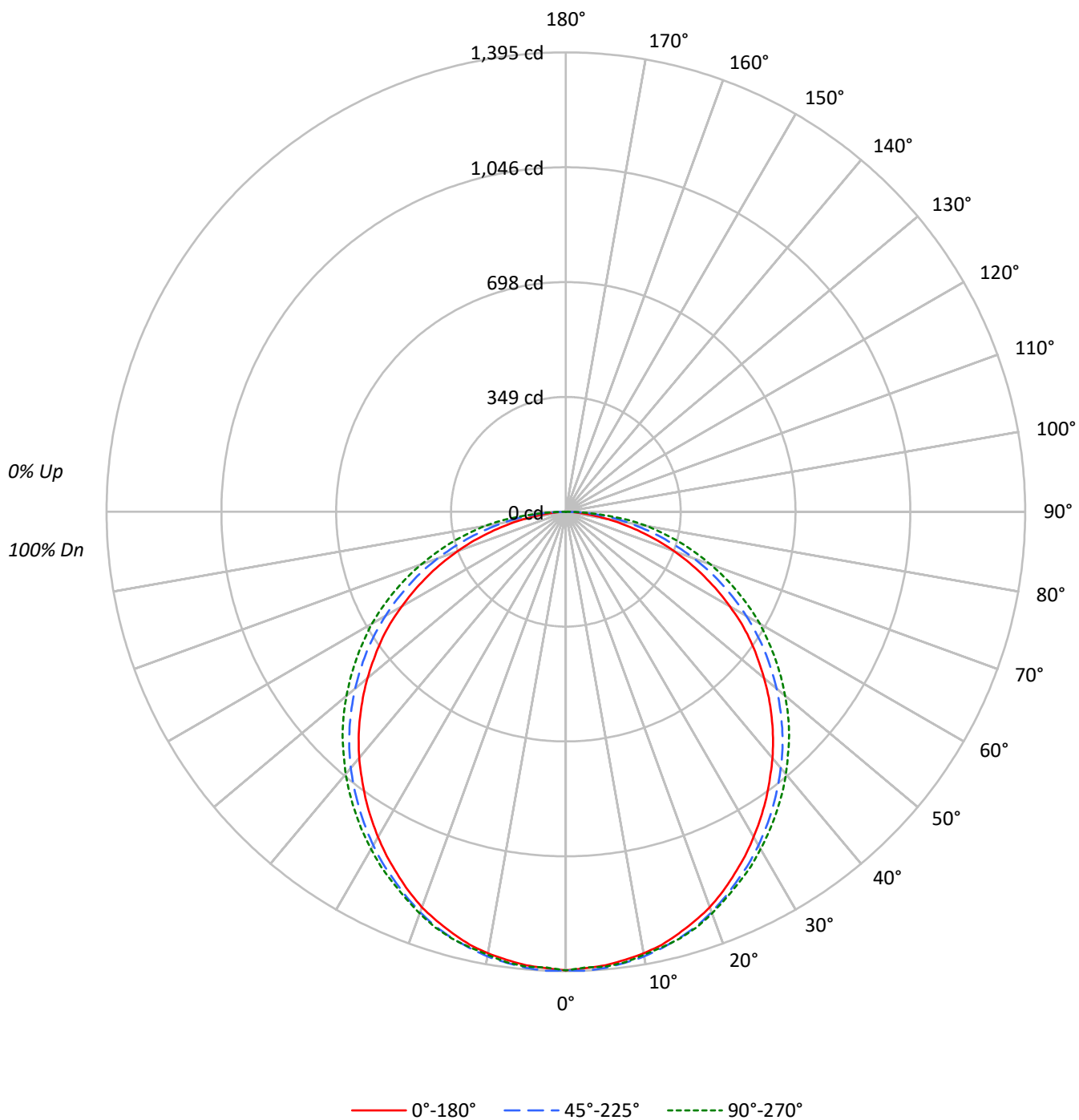
Lumens per Lamp: N/A
Luminaire Lumens: 4064.0 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 29.5
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°	2133	2133	2133
5°	2125	2137	2132
10°	2118	2132	2124
15°	2102	2124	2126
20°	2083	2109	2116
25°	2050	2086	2100
30°	2017	2069	2092
35°	1985	2049	2084
40°	1952	2031	2079
45°	1915	2012	2077
50°	1873	1990	2072
55°	1830	1968	2072
60°	1763	1939	2084
65°	1680	1902	2085
70°	1568	1849	2092
75°	1395	1781	2127
80°	1146	1707	2208
85°	756	1603	1995

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2261 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	3.2
10°-20°	377.1	9.3
20°-30°	568.3	14.0
30°-40°	684.4	16.8
40°-50°	715.0	17.6
50°-60°	656.9	16.2
60°-70°	517.3	12.7
70°-80°	317.1	7.8
80°-90°	96.2	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°	1077.1	26.5
0°-40°	1761.5	43.3
0°-60°	3133.4	77.1
0°-90°	4064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4064.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1393	1393	1393	1393	1393	
5°	1382	1385	1390	1388	1386	131
15°	1326	1331	1339	1344	1341	374
25°	1213	1220	1234	1247	1243	559
35°	1061	1075	1096	1116	1115	664
45°	884	903	929	955	959	682
55°	686	705	737	769	776	612
65°	464	488	525	560	575	458
75°	236	263	301	337	360	251
85°	43	64	91	102	114	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1392.6	1392.6	1392.6	1392.6	1392.6
2.5°	1387.4	1390.8	1395.2	1388.3	1384.8
5°	1382.2	1384.8	1390.0	1388.3	1386.5
7.5°	1372.8	1374.5	1381.4	1381.4	1379.7
10°	1361.6	1365.0	1371.1	1370.2	1365.9
12.5°	1347.0	1349.6	1356.4	1356.4	1353.9
15°	1325.5	1330.6	1339.2	1344.4	1341.0
17.5°	1303.1	1308.3	1319.5	1324.6	1322.9
20°	1278.2	1282.5	1293.7	1301.4	1298.0
22.5°	1247.2	1252.4	1265.3	1273.9	1270.4
25°	1212.8	1220.5	1234.3	1247.2	1242.9
27.5°	1178.4	1187.0	1204.2	1217.1	1215.4
30°	1140.5	1151.7	1169.8	1186.1	1182.7
32.5°	1101.8	1114.7	1133.7	1150.9	1150.0
35°	1061.4	1075.2	1095.8	1115.6	1114.7
37.5°	1018.4	1034.8	1056.3	1077.8	1078.6
40°	976.3	991.7	1015.8	1039.1	1039.9
42.5°	931.5	947.9	973.7	997.8	998.6
45°	884.2	903.1	929.0	954.8	959.1
47.5°	836.1	855.8	882.5	910.0	915.2
50°	786.2	806.8	835.2	864.4	869.6
52.5°	735.4	756.9	786.2	815.4	823.2
55°	685.5	705.3	737.1	769.0	775.8
57.5°	633.1	651.1	685.5	719.1	727.7
60°	575.4	597.8	633.1	666.6	680.4
62.5°	519.5	543.6	579.7	613.3	628.8
65°	463.6	487.7	524.7	560.0	575.4
67.5°	406.8	431.8	471.4	504.9	522.1
70°	350.1	375.0	412.9	449.0	467.1
72.5°	293.3	320.0	357.0	393.9	412.0
75°	235.7	263.2	301.0	337.2	359.5
77.5°	181.5	208.2	246.0	283.0	301.9
80°	129.9	156.5	193.5	230.5	250.3
82.5°	82.6	107.5	143.6	174.6	192.7
85°	43.0	63.7	91.2	101.5	113.5
87.5°	12.9	24.9	35.3	39.6	49.0
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	14.15	15.81	14.51	16.12	16.44	14.89	16.55	15.26	16.87	17.18
	3H	15.91	17.42	16.28	17.74	18.10	16.99	18.49	17.36	18.82	19.18
	4H	16.53	17.95	16.93	18.30	18.68	17.87	19.29	18.27	19.64	20.02
	6H	16.94	18.27	17.36	18.63	19.02	18.64	19.96	19.05	20.32	20.71
	8H	17.05	18.31	17.47	18.70	19.10	18.95	20.21	19.37	20.60	21.00
	12H	17.10	18.31	17.53	18.69	19.12	19.16	20.37	19.59	20.75	21.18
4H	2H	14.92	16.34	15.31	16.69	17.06	15.50	16.92	15.89	17.26	17.64
	3H	16.91	18.11	17.32	18.50	18.90	17.82	19.02	18.23	19.42	19.82
	4H	17.66	18.75	18.09	19.16	19.60	18.86	19.94	19.29	20.36	20.79
	6H	18.20	19.15	18.65	19.59	20.04	19.79	20.74	20.24	21.18	21.63
	8H	18.35	19.24	18.81	19.68	20.14	20.17	21.06	20.63	21.51	21.97
	12H	18.43	19.24	18.91	19.71	20.18	20.45	21.25	20.93	21.73	22.19
8H	4H	18.11	19.01	18.57	19.45	19.91	19.16	20.05	19.62	20.49	20.96
	6H	18.79	19.54	19.28	20.02	20.50	20.24	20.99	20.73	21.47	21.95
	8H	19.01	19.68	19.52	20.19	20.67	20.73	21.40	21.24	21.90	22.39
	12H	19.16	19.75	19.67	20.24	20.80	21.10	21.70	21.61	22.19	22.75
12H	4H	18.20	19.00	18.68	19.48	19.94	19.19	19.99	19.66	20.46	20.93
	6H	18.92	19.59	19.43	20.09	20.58	20.29	20.96	20.80	21.47	21.95
	8H	19.21	19.80	19.72	20.29	20.85	20.85	21.44	21.35	21.93	22.49