

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: P1589765

Luminaire Tested: 24CZSP-SB-43HE-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589765
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-L935
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

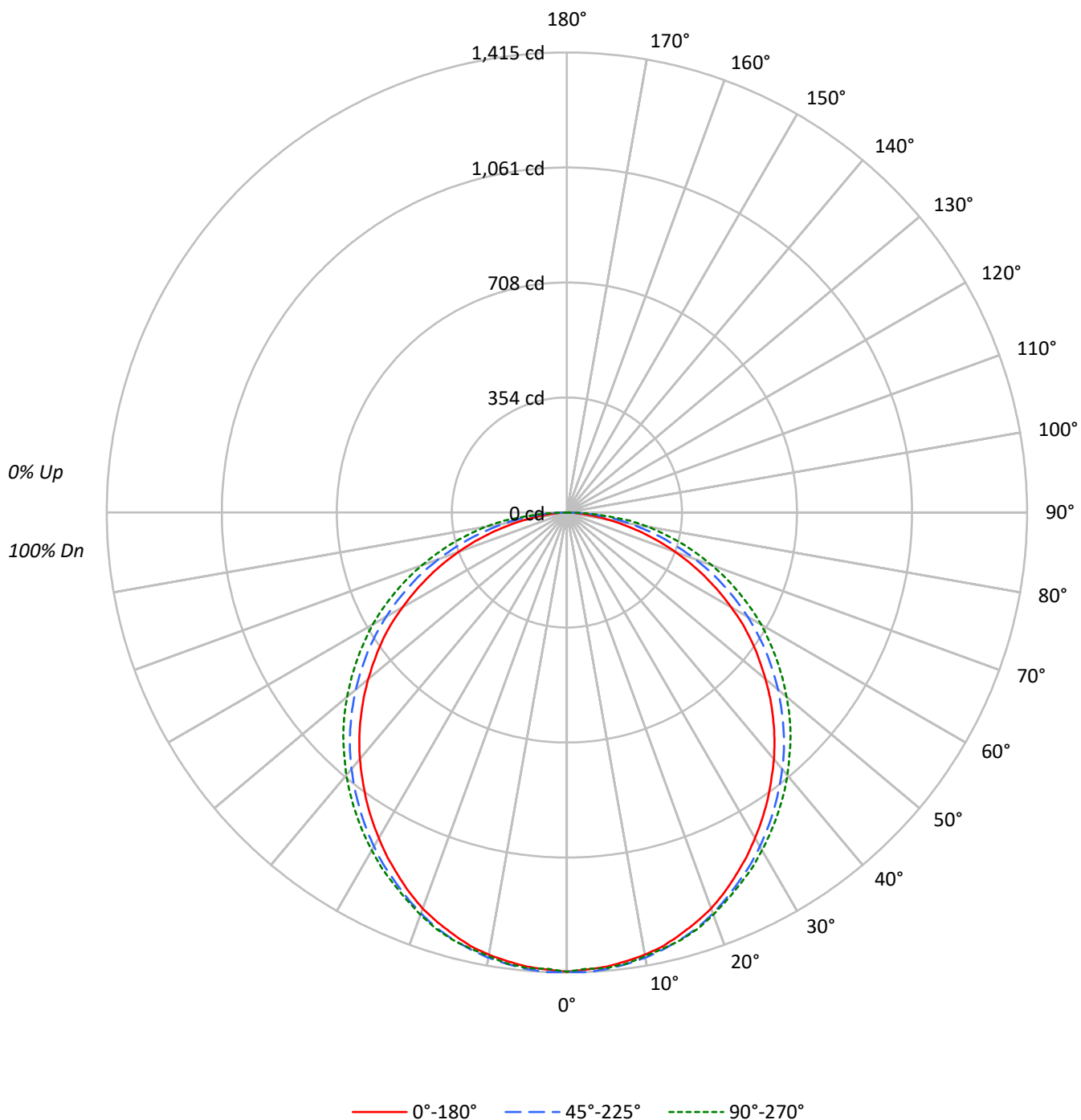
Lumens per Lamp: N/A
Luminaire Lumens: 4122.0 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	2163	2163	2163
5°	2156	2168	2162
10°	2148	2163	2155
15°	2132	2154	2157
20°	2113	2139	2146
25°	2079	2116	2130
30°	2046	2098	2122
35°	2013	2078	2114
40°	1980	2060	2109
45°	1943	2041	2107
50°	1900	2018	2102
55°	1857	1997	2101
60°	1788	1967	2114
65°	1704	1929	2115
70°	1590	1875	2121
75°	1414	1807	2158
80°	1162	1731	2239
85°	766	1626	2024

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2293 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.6	3.2
10°-20°	382.4	9.3
20°-30°	576.4	14.0
30°-40°	694.2	16.8
40°-50°	725.2	17.6
50°-60°	666.3	16.2
60°-70°	524.7	12.7
70°-80°	321.7	7.8
80°-90°	97.5	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°	1092.5	26.5
0°-40°	1786.6	43.3
0°-60°	3178.1	77.1
0°-90°	4122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4122.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1412	1412	1412	1412	1412	
5°	1402	1405	1410	1408	1406	133
15°	1344	1350	1358	1364	1360	379
25°	1230	1238	1252	1265	1261	567
35°	1077	1090	1112	1132	1131	673
45°	897	916	942	968	973	692
55°	695	715	748	780	787	620
65°	470	495	532	568	584	465
75°	239	267	305	342	365	254
85°	44	65	92	103	115	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1412.4	1412.4	1412.4	1412.4	1412.4
2.5°	1407.2	1410.7	1415.1	1408.1	1404.6
5°	1402.0	1404.6	1409.8	1408.1	1406.3
7.5°	1392.4	1394.1	1401.1	1401.1	1399.4
10°	1381.0	1384.5	1390.6	1389.8	1385.4
12.5°	1366.2	1368.8	1375.8	1375.8	1373.2
15°	1344.4	1349.6	1358.4	1363.6	1360.1
17.5°	1321.7	1326.9	1338.3	1343.5	1341.8
20°	1296.4	1300.8	1312.1	1320.0	1316.5
22.5°	1265.0	1270.2	1283.3	1292.1	1288.6
25°	1230.1	1238.0	1251.9	1265.0	1260.6
27.5°	1195.2	1203.9	1221.4	1234.5	1232.7
30°	1156.8	1168.2	1186.5	1203.1	1199.6
32.5°	1117.6	1130.7	1149.8	1167.3	1166.4
35°	1076.6	1090.5	1111.5	1131.5	1130.7
37.5°	1032.9	1049.5	1071.3	1093.1	1094.0
40°	990.2	1005.9	1030.3	1053.9	1054.8
42.5°	944.8	961.4	987.6	1012.0	1012.9
45°	896.8	916.0	942.2	968.4	972.7
47.5°	848.0	868.1	895.1	923.0	928.3
50°	797.4	818.3	847.1	876.8	882.0
52.5°	745.9	767.7	797.4	827.1	834.9
55°	695.3	715.4	747.7	779.9	786.9
57.5°	642.1	660.4	695.3	729.3	738.1
60°	583.6	606.3	642.1	676.1	690.1
62.5°	526.9	551.4	588.0	622.0	637.7
65°	470.2	494.7	532.2	567.9	583.6
67.5°	412.7	438.0	478.1	512.1	529.6
70°	355.1	380.4	418.8	455.4	473.7
72.5°	297.5	324.5	362.1	399.6	417.9
75°	239.0	267.0	305.3	342.0	364.7
77.5°	184.1	211.1	249.5	287.0	306.2
80°	131.7	158.8	196.3	233.8	253.9
82.5°	83.8	109.1	145.7	177.1	195.4
85°	43.6	64.6	92.5	102.9	115.2
87.5°	13.1	25.3	35.8	40.1	49.7
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	14.19	15.86	14.56	16.17	16.49	14.94	16.60	15.31	16.92	17.23
	3H	15.96	17.46	16.33	17.79	18.15	17.04	18.54	17.41	18.87	19.23
	4H	16.58	18.00	16.98	18.35	18.73	17.92	19.34	18.32	19.69	20.07
	6H	16.99	18.31	17.40	18.68	19.07	18.69	20.01	19.10	20.37	20.76
	8H	17.10	18.36	17.52	18.75	19.15	19.00	20.26	19.42	20.65	21.05
	12H	17.15	18.36	17.58	18.74	19.17	19.21	20.42	19.64	20.80	21.23
4H	2H	14.96	16.39	15.36	16.73	17.11	15.54	16.97	15.94	17.31	17.69
	3H	16.96	18.16	17.37	18.55	18.95	17.87	19.07	18.28	19.47	19.87
	4H	17.71	18.80	18.14	19.21	19.65	18.91	19.99	19.34	20.41	20.84
	6H	18.25	19.20	18.70	19.64	20.09	19.84	20.79	20.29	21.23	21.68
	8H	18.40	19.29	18.85	19.73	20.19	20.22	21.11	20.68	21.56	22.02
	12H	18.48	19.29	18.96	19.76	20.23	20.50	21.30	20.98	21.78	22.24
8H	4H	18.16	19.06	18.62	19.50	19.96	19.21	20.10	19.67	20.54	21.01
	6H	18.84	19.59	19.33	20.07	20.55	20.29	21.04	20.78	21.52	22.00
	8H	19.06	19.73	19.57	20.24	20.72	20.78	21.45	21.29	21.95	22.44
	12H	19.21	19.80	19.72	20.29	20.85	21.15	21.75	21.66	22.24	22.79
12H	4H	18.25	19.05	18.73	19.53	19.99	19.24	20.04	19.71	20.51	20.98
	6H	18.97	19.64	19.48	20.14	20.63	20.34	21.01	20.85	21.52	22.00
	8H	19.26	19.85	19.77	20.34	20.90	20.90	21.49	21.40	21.98	22.54