

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: P1589764

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589764
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-43HE-L935-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

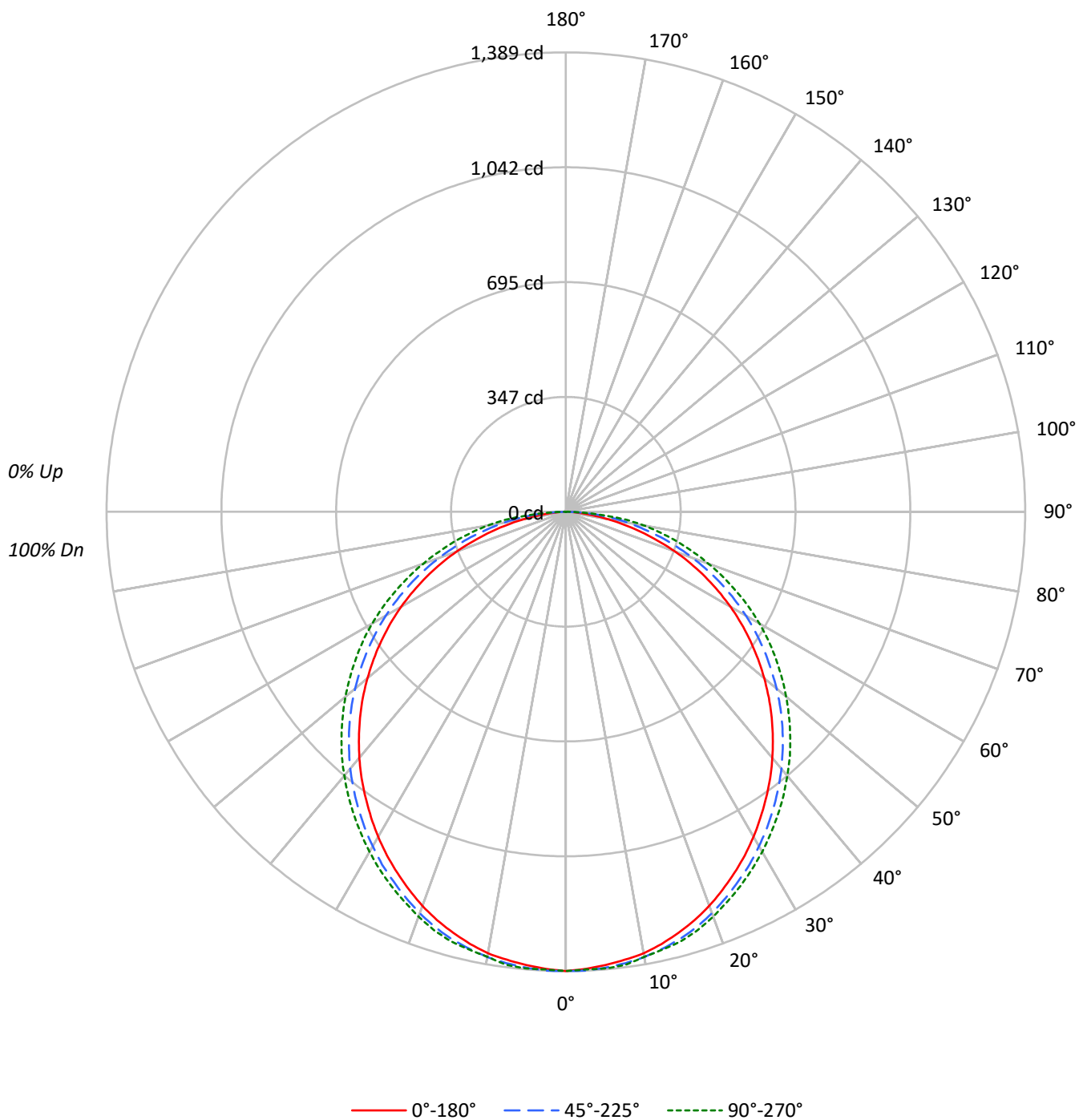
Lumens per Lamp: N/A
Luminaire Lumens: 4040.0 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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			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°	2127	2127	2127
5°	2115	2127	2131
10°	2109	2126	2125
15°	2089	2120	2132
20°	2067	2105	2123
25°	2037	2084	2111
30°	2007	2066	2100
35°	1974	2046	2090
40°	1943	2028	2083
45°	1907	2007	2078
50°	1866	1982	2073
55°	1820	1956	2070
60°	1762	1927	2071
65°	1682	1887	2060
70°	1572	1829	2055
75°	1394	1759	2062
80°	1134	1671	2123
85°	733	1543	1833

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2152 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	3.3
10°-20°	376.4	9.3
20°-30°	567.5	14.0
30°-40°	682.8	16.9
40°-50°	712.2	17.6
50°-60°	652.8	16.2
60°-70°	512.6	12.7
70°-80°	312.0	7.7
80°-90°	92.3	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°	1075.2	26.6
0°-40°	1758.0	43.5
0°-60°	3123.1	77.3
0°-90°	4040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4040.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1389	1389	1389	1389	1389	
5°	1376	1384	1384	1382	1386	131
15°	1318	1331	1337	1338	1344	372
25°	1205	1222	1233	1241	1249	555
35°	1056	1072	1094	1110	1118	661
45°	880	899	926	948	960	679
55°	681	699	733	762	775	609
65°	464	482	521	555	568	459
75°	236	257	297	333	348	250
85°	42	59	88	98	104	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1388.8	1388.8	1388.8	1388.8	1388.8
2.5°	1383.6	1390.6	1388.8	1382.7	1385.3
5°	1375.8	1384.5	1383.6	1381.9	1386.2
7.5°	1366.2	1375.8	1376.6	1376.6	1381.9
10°	1355.8	1365.3	1367.1	1364.5	1366.2
12.5°	1338.4	1349.7	1353.2	1353.2	1355.8
15°	1317.5	1330.6	1336.7	1338.4	1344.5
17.5°	1294.9	1308.9	1316.7	1321.0	1326.2
20°	1268.0	1282.8	1291.5	1296.7	1302.8
22.5°	1237.6	1254.1	1263.7	1268.9	1275.8
25°	1205.4	1221.9	1233.2	1241.1	1248.9
27.5°	1171.5	1187.2	1202.8	1212.4	1219.3
30°	1135.0	1151.5	1168.1	1180.2	1187.2
32.5°	1095.9	1113.3	1132.4	1145.5	1153.3
35°	1055.9	1072.5	1094.2	1109.8	1117.7
37.5°	1015.1	1032.5	1055.1	1071.6	1081.2
40°	971.6	989.9	1014.2	1032.5	1042.0
42.5°	926.5	943.8	970.8	991.6	1002.9
45°	880.4	898.6	926.5	948.2	959.5
47.5°	832.6	850.0	880.4	905.6	915.2
50°	783.1	799.6	831.7	858.7	870.0
52.5°	732.6	750.0	782.2	810.9	823.0
55°	681.4	698.8	732.6	762.2	775.2
57.5°	629.2	646.6	681.4	711.8	727.4
60°	575.3	592.7	629.2	660.5	676.2
62.5°	519.7	538.0	575.3	607.5	624.0
65°	464.1	481.5	520.6	555.4	568.4
67.5°	408.5	425.9	464.1	498.9	514.5
70°	351.1	371.1	408.5	445.0	458.9
72.5°	291.1	313.7	351.1	389.4	403.3
75°	235.5	257.3	297.2	332.9	348.5
77.5°	180.8	204.2	241.6	278.1	293.8
80°	128.6	151.2	189.5	224.2	240.7
82.5°	81.7	101.7	139.9	171.2	183.4
85°	41.7	59.1	87.8	98.2	104.3
87.5°	12.2	20.9	31.3	39.1	43.5
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	14.12	15.78	14.49	16.10	16.41	14.86	16.52	15.22	16.83	17.15
	3H	15.89	17.40	16.27	17.72	18.08	16.94	18.44	17.31	18.77	19.13
	4H	16.51	17.93	16.91	18.28	18.65	17.80	19.22	18.20	19.57	19.94
	6H	16.92	18.24	17.33	18.60	18.99	18.55	19.86	18.96	20.23	20.62
	8H	17.02	18.28	17.45	18.67	19.07	18.84	20.10	19.27	20.49	20.89
	12H	17.07	18.28	17.50	18.66	19.09	19.03	20.24	19.46	20.62	21.05
4H	2H	14.89	16.31	15.29	16.66	17.03	15.46	16.88	15.86	17.23	17.60
	3H	16.88	18.08	17.29	18.47	18.87	17.77	18.97	18.18	19.37	19.77
	4H	17.62	18.71	18.05	19.12	19.55	18.79	19.88	19.22	20.29	20.72
	6H	18.15	19.10	18.61	19.54	20.00	19.70	20.65	20.15	21.09	21.54
	8H	18.29	19.18	18.75	19.63	20.09	20.07	20.95	20.52	21.40	21.86
	12H	18.37	19.18	18.85	19.65	20.12	20.32	21.12	20.80	21.59	22.06
8H	4H	18.07	18.96	18.53	19.40	19.86	19.09	19.98	19.55	20.42	20.89
	6H	18.73	19.47	19.22	19.96	20.44	20.15	20.89	20.64	21.38	21.85
	8H	18.94	19.61	19.45	20.11	20.60	20.62	21.29	21.13	21.79	22.28
	12H	19.08	19.67	19.58	20.16	20.72	20.97	21.56	21.48	22.05	22.61
12H	4H	18.15	18.95	18.63	19.43	19.89	19.12	19.92	19.60	20.39	20.86
	6H	18.86	19.52	19.36	20.03	20.51	20.20	20.87	20.71	21.37	21.86
	8H	19.13	19.72	19.64	20.21	20.77	20.74	21.33	21.24	21.82	22.37