

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: P1589771

Luminaire Tested: 24CZSP-SB-43HE-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589771
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-L950
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

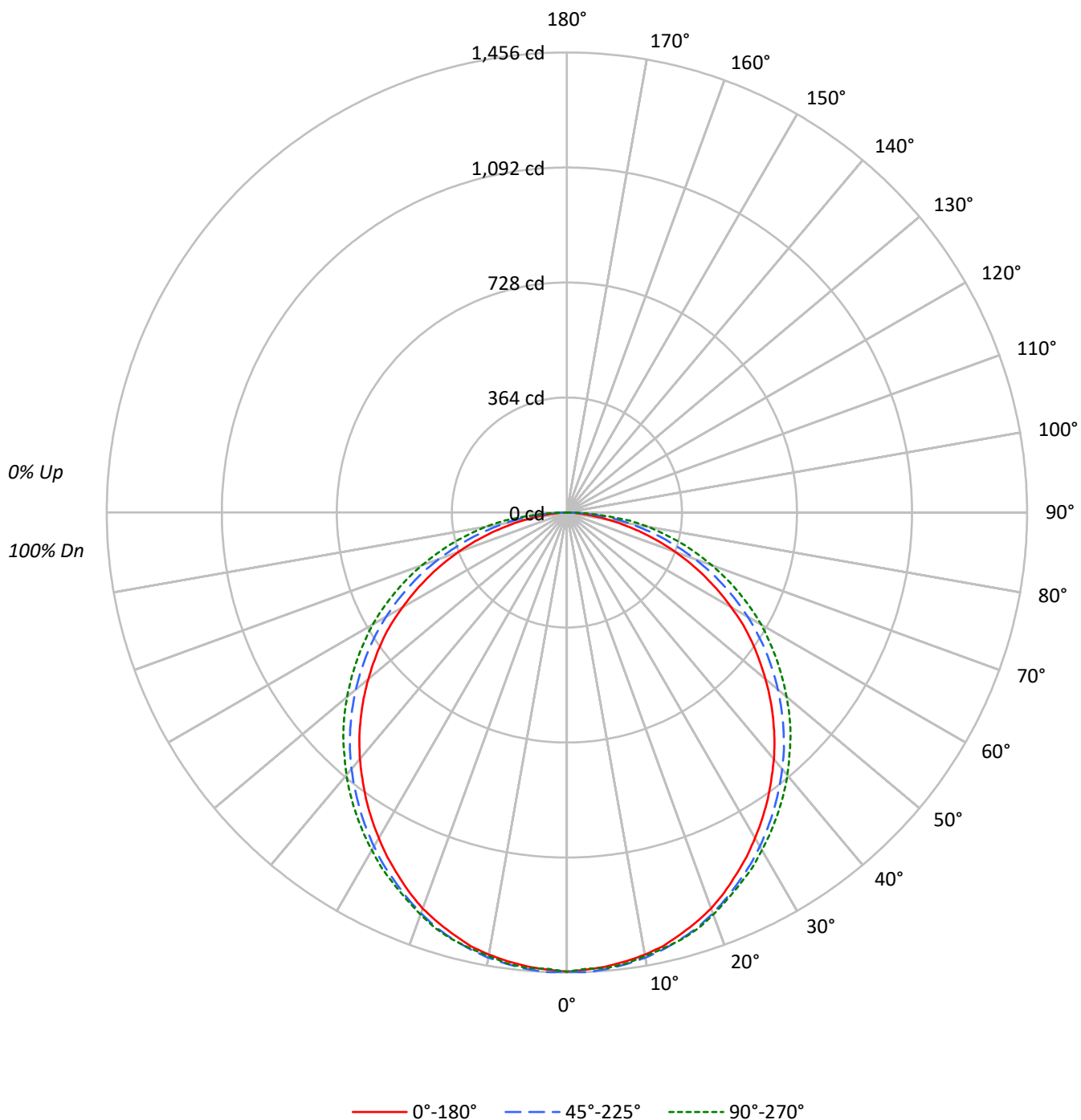
Lumens per Lamp: N/A
Luminaire Lumens: 4241.0 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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	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°	2226	2226	2226
5°	2218	2230	2225
10°	2210	2225	2217
15°	2193	2216	2219
20°	2174	2200	2208
25°	2139	2177	2192
30°	2105	2159	2183
35°	2071	2138	2175
40°	2037	2120	2170
45°	1999	2100	2168
50°	1955	2077	2162
55°	1910	2054	2162
60°	1839	2024	2175
65°	1753	1984	2176
70°	1636	1929	2183
75°	1455	1859	2220
80°	1195	1782	2304
85°	789	1671	2082

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2360 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.5	3.2
10°-20°	393.5	9.3
20°-30°	593.1	14.0
30°-40°	714.2	16.8
40°-50°	746.2	17.6
50°-60°	685.5	16.2
60°-70°	539.8	12.7
70°-80°	331.0	7.8
80°-90°	100.4	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°	1124.0	26.5
0°-40°	1838.2	43.3
0°-60°	3269.9	77.1
0°-90°	4241.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4241.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1453	1453	1453	1453	1453	
5°	1442	1445	1450	1449	1447	137
15°	1383	1389	1398	1403	1399	390
25°	1266	1274	1288	1302	1297	583
35°	1108	1122	1144	1164	1163	693
45°	923	942	969	996	1001	712
55°	715	736	769	802	810	638
65°	484	509	548	584	600	478
75°	246	275	314	352	375	261
85°	45	66	95	106	118	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1453.2	1453.2	1453.2	1453.2	1453.2
2.5°	1447.8	1451.4	1455.9	1448.7	1445.1
5°	1442.4	1445.1	1450.5	1448.7	1446.9
7.5°	1432.6	1434.4	1441.6	1441.6	1439.8
10°	1420.9	1424.5	1430.8	1429.9	1425.4
12.5°	1405.6	1408.3	1415.5	1415.5	1412.8
15°	1383.2	1388.6	1397.6	1403.0	1399.4
17.5°	1359.9	1365.3	1376.9	1382.3	1380.5
20°	1333.8	1338.3	1350.0	1358.1	1354.5
22.5°	1301.5	1306.9	1320.4	1329.4	1325.8
25°	1265.6	1273.7	1288.1	1301.5	1297.0
27.5°	1229.7	1238.7	1256.6	1270.1	1268.3
30°	1190.2	1201.9	1220.7	1237.8	1234.2
32.5°	1149.8	1163.3	1183.0	1201.0	1200.1
35°	1107.6	1122.0	1143.5	1164.2	1163.3
37.5°	1062.8	1079.8	1102.3	1124.7	1125.6
40°	1018.8	1034.9	1060.1	1084.3	1085.2
42.5°	972.1	989.2	1016.1	1041.2	1042.1
45°	922.7	942.5	969.4	996.3	1000.8
47.5°	872.5	893.1	920.9	949.7	955.1
50°	820.4	842.0	871.6	902.1	907.5
52.5°	767.5	789.9	820.4	850.9	859.0
55°	715.4	736.0	769.2	802.5	809.6
57.5°	660.6	679.5	715.4	750.4	759.4
60°	600.5	623.8	660.6	695.6	710.0
62.5°	542.2	567.3	605.0	640.0	656.1
65°	483.8	508.9	547.5	584.3	600.5
67.5°	424.6	450.6	491.9	526.9	544.8
70°	365.3	391.4	430.8	468.5	487.4
72.5°	306.1	333.9	372.5	411.1	430.0
75°	245.9	274.7	314.2	351.9	375.2
77.5°	189.4	217.2	256.7	295.3	315.1
80°	135.5	163.4	202.0	240.6	261.2
82.5°	86.2	112.2	149.9	182.2	201.1
85°	44.9	66.4	95.1	105.9	118.5
87.5°	13.5	26.0	36.8	41.3	51.2
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	14.29	15.96	14.66	16.27	16.58	15.04	16.70	15.40	17.02	17.33
	3H	16.06	17.56	16.43	17.89	18.25	17.13	18.64	17.51	18.97	19.33
	4H	16.68	18.10	17.08	18.45	18.82	18.02	19.44	18.42	19.79	20.16
	6H	17.09	18.41	17.50	18.78	19.17	18.79	20.11	19.20	20.47	20.86
	8H	17.20	18.46	17.62	18.85	19.25	19.10	20.36	19.52	20.75	21.15
	12H	17.25	18.46	17.68	18.84	19.27	19.31	20.52	19.74	20.90	21.33
4H	2H	15.06	16.49	15.46	16.83	17.21	15.64	17.07	16.04	17.41	17.79
	3H	17.06	18.26	17.47	18.65	19.05	17.97	19.17	18.38	19.57	19.97
	4H	17.81	18.90	18.24	19.31	19.74	19.01	20.09	19.44	20.51	20.94
	6H	18.35	19.30	18.80	19.74	20.19	19.94	20.89	20.39	21.33	21.78
	8H	18.49	19.39	18.95	19.83	20.29	20.32	21.21	20.78	21.65	22.12
	12H	18.58	19.38	19.06	19.86	20.33	20.60	21.40	21.08	21.87	22.34
8H	4H	18.26	19.16	18.72	19.60	20.06	19.31	20.20	19.76	20.64	21.10
	6H	18.94	19.69	19.43	20.17	20.65	20.39	21.14	20.88	21.62	22.10
	8H	19.16	19.83	19.67	20.33	20.82	20.88	21.55	21.39	22.05	22.54
	12H	19.31	19.90	19.81	20.39	20.95	21.25	21.85	21.76	22.33	22.89
12H	4H	18.35	19.15	18.83	19.62	20.09	19.33	20.14	19.81	20.61	21.08
	6H	19.07	19.74	19.58	20.24	20.73	20.44	21.11	20.95	21.62	22.10
	8H	19.36	19.95	19.86	20.44	21.00	21.00	21.59	21.50	22.08	22.64