

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: P1589762

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589762
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-L930-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

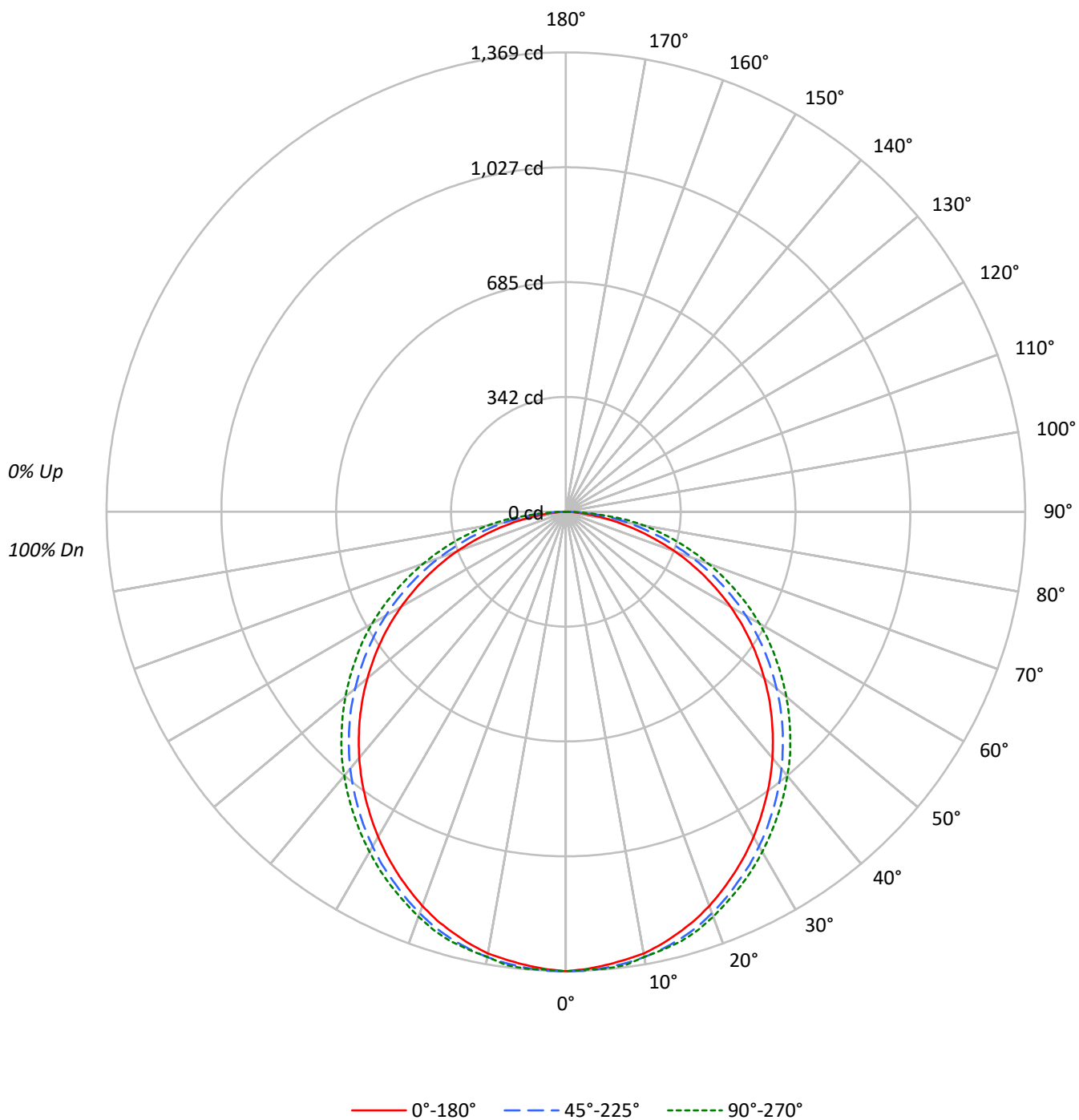
Lumens per Lamp: N/A
Luminaire Lumens: 3983.0 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	2097	2097	2097
5°	2085	2097	2101
10°	2079	2096	2095
15°	2060	2090	2102
20°	2038	2075	2093
25°	2008	2055	2081
30°	1979	2037	2070
35°	1947	2017	2060
40°	1915	1999	2054
45°	1880	1978	2049
50°	1840	1954	2044
55°	1794	1929	2041
60°	1737	1900	2042
65°	1658	1860	2031
70°	1550	1803	2026
75°	1374	1734	2033
80°	1118	1648	2093
85°	722	1520	1807

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2122 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	3.3
10°-20°	371.1	9.3
20°-30°	559.5	14.0
30°-40°	673.2	16.9
40°-50°	702.2	17.6
50°-60°	643.6	16.2
60°-70°	505.4	12.7
70°-80°	307.6	7.7
80°-90°	91.0	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°	1060.1	26.6
0°-40°	1733.2	43.5
0°-60°	3079.0	77.3
0°-90°	3983.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3983.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1369	1369	1369	1369	1369	
5°	1356	1365	1364	1362	1367	129
15°	1299	1312	1318	1320	1326	366
25°	1188	1205	1216	1224	1231	548
35°	1041	1057	1079	1094	1102	651
45°	868	886	913	935	946	669
55°	672	689	722	751	764	600
65°	458	475	513	548	560	453
75°	232	254	293	328	344	246
85°	41	58	86	97	103	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1364.1	1370.9	1369.2	1363.2	1365.8
5°	1356.4	1364.9	1364.1	1362.4	1366.6
7.5°	1346.9	1356.4	1357.2	1357.2	1362.4
10°	1336.7	1346.1	1347.8	1345.2	1346.9
12.5°	1319.5	1330.7	1334.1	1334.1	1336.7
15°	1299.0	1311.8	1317.8	1319.5	1325.5
17.5°	1276.7	1290.4	1298.1	1302.4	1307.5
20°	1250.1	1264.7	1273.3	1278.4	1284.4
22.5°	1220.1	1236.4	1245.8	1251.0	1257.8
25°	1188.4	1204.7	1215.8	1223.6	1231.3
27.5°	1155.0	1170.4	1185.9	1195.3	1202.1
30°	1119.0	1135.3	1151.6	1163.6	1170.4
32.5°	1080.5	1097.6	1116.5	1129.3	1137.0
35°	1041.1	1057.3	1078.8	1094.2	1101.9
37.5°	1000.8	1017.9	1040.2	1056.5	1065.9
40°	957.9	975.9	999.9	1017.9	1027.3
42.5°	913.4	930.5	957.1	977.6	988.8
45°	868.0	886.0	913.4	934.8	945.9
47.5°	820.8	838.0	868.0	892.8	902.2
50°	772.0	788.3	820.0	846.5	857.7
52.5°	722.3	739.4	771.1	799.4	811.4
55°	671.8	688.9	722.3	751.4	764.3
57.5°	620.3	637.5	671.8	701.7	717.2
60°	567.2	584.4	620.3	651.2	666.6
62.5°	512.4	530.4	567.2	598.9	615.2
65°	457.5	474.7	513.2	547.5	560.4
67.5°	402.7	419.8	457.5	491.8	507.2
70°	346.2	365.9	402.7	438.7	452.4
72.5°	287.0	309.3	346.2	383.9	397.6
75°	232.2	253.6	293.0	328.2	343.6
77.5°	178.2	201.4	238.2	274.2	289.6
80°	126.8	149.1	186.8	221.1	237.3
82.5°	80.5	100.2	137.9	168.8	180.8
85°	41.1	58.3	86.5	96.8	102.8
87.5°	12.0	20.6	30.8	38.6	42.8
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	14.07	15.73	14.44	16.05	16.36	14.81	16.47	15.17	16.78	17.10
	3H	15.84	17.35	16.22	17.67	18.03	16.89	18.39	17.26	18.72	19.08
	4H	16.46	17.88	16.86	18.23	18.60	17.75	19.17	18.15	19.52	19.89
	6H	16.87	18.19	17.28	18.55	18.94	18.50	19.81	18.91	20.18	20.57
	8H	16.97	18.23	17.40	18.62	19.02	18.79	20.05	19.22	20.44	20.84
	12H	17.02	18.23	17.45	18.61	19.04	18.99	20.19	19.41	20.57	21.00
4H	2H	14.84	16.26	15.24	16.61	16.98	15.41	16.83	15.81	17.18	17.55
	3H	16.83	18.03	17.24	18.42	18.82	17.72	18.92	18.13	19.32	19.72
	4H	17.57	18.66	18.01	19.07	19.51	18.74	19.83	19.17	20.24	20.67
	6H	18.10	19.05	18.56	19.49	19.95	19.65	20.60	20.10	21.04	21.49
	8H	18.24	19.13	18.70	19.58	20.04	20.02	20.91	20.47	21.35	21.81
	12H	18.33	19.13	18.80	19.60	20.07	20.27	21.07	20.75	21.55	22.01
8H	4H	18.02	18.91	18.48	19.35	19.82	19.04	19.93	19.50	20.37	20.84
	6H	18.68	19.43	19.18	19.91	20.39	20.10	20.84	20.59	21.33	21.80
	8H	18.89	19.56	19.40	20.06	20.55	20.57	21.24	21.08	21.74	22.23
	12H	19.03	19.62	19.53	20.11	20.67	20.92	21.51	21.43	22.00	22.56
12H	4H	18.10	18.90	18.58	19.38	19.84	19.07	19.87	19.55	20.34	20.81
	6H	18.81	19.47	19.31	19.98	20.46	20.15	20.82	20.66	21.32	21.81
	8H	19.08	19.67	19.59	20.16	20.72	20.69	21.28	21.19	21.77	22.33