

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: P1587709

Luminaire Tested: 22CZSP-SB-43HE-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587709
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: 22CZSP-SB-43HE-L945
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 4000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

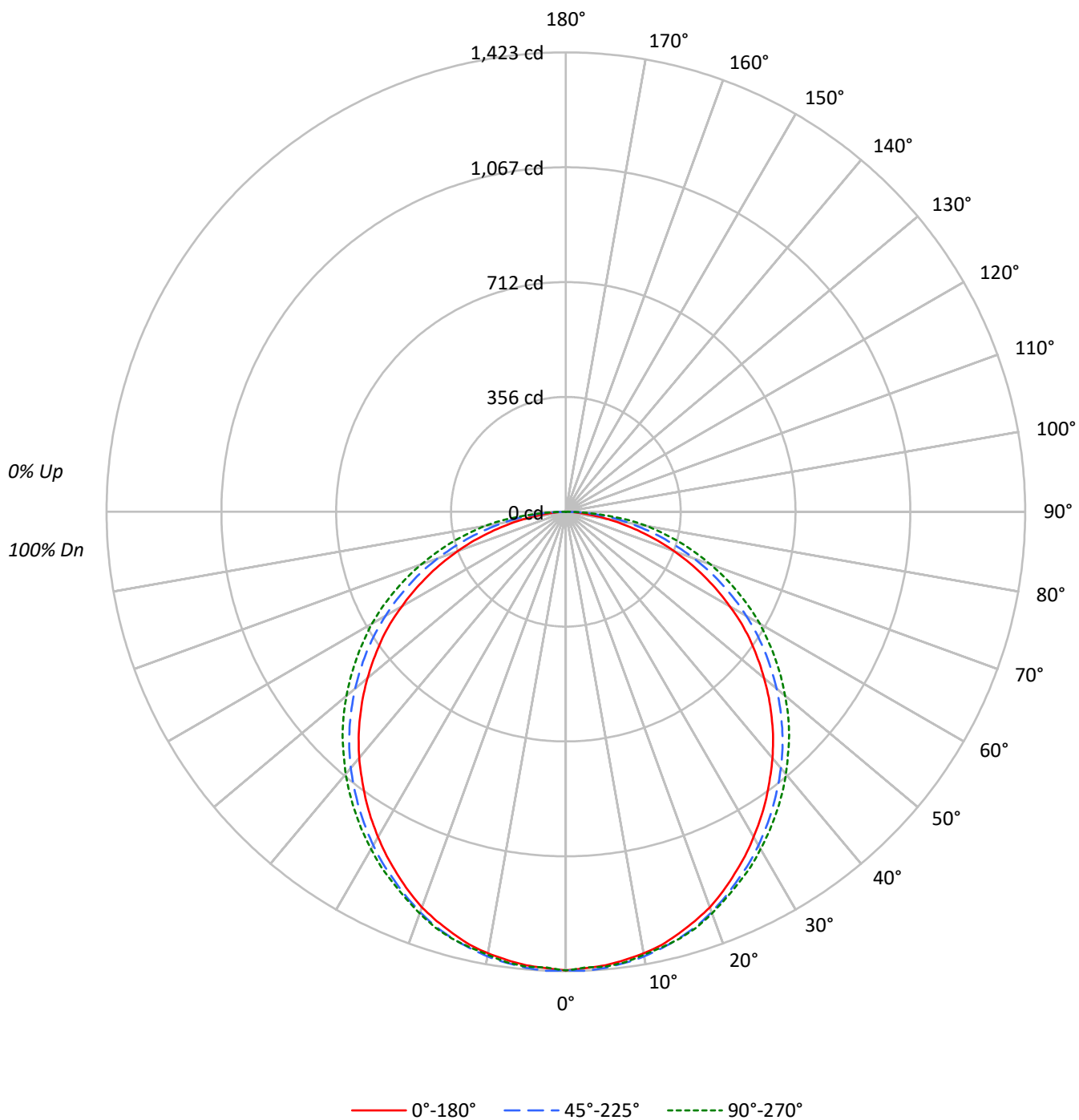
Lumens per Lamp: N/A
Luminaire Lumens: 4146.0 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.2
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°	4449	4449	4449
5°	4432	4457	4446
10°	4417	4447	4431
15°	4384	4429	4435
20°	4345	4398	4412
25°	4275	4351	4381
30°	4207	4315	4363
35°	4139	4273	4347
40°	4071	4236	4337
45°	3995	4197	4333
50°	3907	4151	4321
55°	3818	4105	4321
60°	3676	4044	4347
65°	3505	3966	4349
70°	3269	3856	4363
75°	2908	3715	4438
80°	2389	3560	4606
85°	1577	3341	4160

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4716 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.4	3.2
10°-20°	384.7	9.3
20°-30°	579.8	14.0
30°-40°	698.2	16.8
40°-50°	729.4	17.6
50°-60°	670.2	16.2
60°-70°	527.7	12.7
70°-80°	323.6	7.8
80°-90°	98.1	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°	1098.8	26.5
0°-40°	1797.0	43.3
0°-60°	3196.6	77.1
0°-90°	4146.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4146.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1421	1421	1421	1421	1421	
5°	1410	1413	1418	1416	1414	134
15°	1352	1358	1366	1372	1368	382
25°	1237	1245	1259	1272	1268	570
35°	1083	1097	1118	1138	1137	677
45°	902	921	948	974	978	696
55°	699	720	752	784	792	624
65°	473	498	535	571	587	468
75°	240	268	307	344	367	256
85°	44	65	93	104	116	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1420.7	1420.7	1420.7	1420.7	1420.7
2.5°	1415.4	1418.9	1423.3	1416.3	1412.8
5°	1410.1	1412.8	1418.0	1416.3	1414.5
7.5°	1400.5	1402.2	1409.3	1409.3	1407.5
10°	1389.1	1392.6	1398.7	1397.9	1393.5
12.5°	1374.2	1376.8	1383.8	1383.8	1381.2
15°	1352.2	1357.5	1366.3	1371.5	1368.0
17.5°	1329.4	1334.7	1346.1	1351.3	1349.6
20°	1304.0	1308.3	1319.8	1327.7	1324.1
22.5°	1272.4	1277.6	1290.8	1299.6	1296.1
25°	1237.3	1245.2	1259.2	1272.4	1268.0
27.5°	1202.2	1210.9	1228.5	1241.7	1239.9
30°	1163.6	1175.0	1193.4	1210.1	1206.6
32.5°	1124.1	1137.2	1156.5	1174.1	1173.2
35°	1082.8	1096.9	1117.9	1138.1	1137.2
37.5°	1039.0	1055.6	1077.6	1099.5	1100.4
40°	996.0	1011.8	1036.3	1060.0	1060.9
42.5°	950.3	967.0	993.3	1017.9	1018.8
45°	902.1	921.4	947.7	974.0	978.4
47.5°	852.9	873.1	900.3	928.4	933.7
50°	802.0	823.1	852.0	881.9	887.1
52.5°	750.3	772.2	802.0	831.9	839.8
55°	699.4	719.5	752.0	784.5	791.5
57.5°	645.8	664.3	699.4	733.6	742.4
60°	587.0	609.9	645.8	680.1	694.1
62.5°	530.0	554.6	591.4	625.7	641.5
65°	473.0	497.5	535.3	571.3	587.0
67.5°	415.1	440.5	480.9	515.1	532.6
70°	357.1	382.6	421.2	458.1	476.5
72.5°	299.2	326.4	364.2	401.9	420.3
75°	240.4	268.5	307.1	344.0	366.8
77.5°	185.2	212.4	251.0	288.7	308.0
80°	132.5	159.7	197.4	235.2	255.4
82.5°	84.2	109.7	146.5	178.1	196.6
85°	43.9	64.9	93.0	103.5	115.8
87.5°	13.2	25.4	36.0	40.4	50.0
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	16.70	18.36	17.06	18.68	18.99	17.45	19.11	17.81	19.42	19.74
	3H	18.46	19.97	18.84	20.30	20.66	19.54	21.05	19.92	21.37	21.73
	4H	19.09	20.51	19.48	20.86	21.23	20.43	21.85	20.82	22.20	22.57
	6H	19.50	20.82	19.91	21.18	21.57	21.19	22.51	21.60	22.88	23.27
	8H	19.60	20.87	20.03	21.26	21.65	21.50	22.77	21.93	23.16	23.55
	12H	19.66	20.87	20.09	21.25	21.68	21.72	22.93	22.15	23.31	23.74
4H	2H	17.47	18.89	17.87	19.24	19.61	18.05	19.47	18.45	19.82	20.19
	3H	19.46	20.66	19.87	21.06	21.46	20.38	21.58	20.79	21.97	22.37
	4H	20.22	21.30	20.65	21.72	22.15	21.41	22.50	21.84	22.91	23.35
	6H	20.75	21.71	21.21	22.15	22.60	22.34	23.30	22.80	23.74	24.19
	8H	20.90	21.79	21.36	22.23	22.70	22.73	23.62	23.19	24.06	24.52
	12H	20.99	21.79	21.47	22.26	22.73	23.00	23.81	23.48	24.28	24.75
8H	4H	20.67	21.56	21.13	22.00	22.47	21.71	22.60	22.17	23.05	23.51
	6H	21.35	22.09	21.84	22.58	23.05	22.80	23.54	23.29	24.03	24.50
	8H	21.57	22.24	22.07	22.74	23.23	23.28	23.95	23.79	24.46	24.94
	12H	21.71	22.31	22.22	22.80	23.35	23.66	24.25	24.16	24.74	25.30
12H	4H	20.75	21.56	21.23	22.03	22.50	21.74	22.54	22.22	23.02	23.49
	6H	21.47	22.14	21.98	22.65	23.13	22.85	23.52	23.36	24.02	24.51
	8H	21.77	22.36	22.27	22.85	23.41	23.40	23.99	23.91	24.48	25.04