

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: P1587659

Luminaire Tested: 22CZSP-SB-37HE-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587659
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-37HE-L845
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

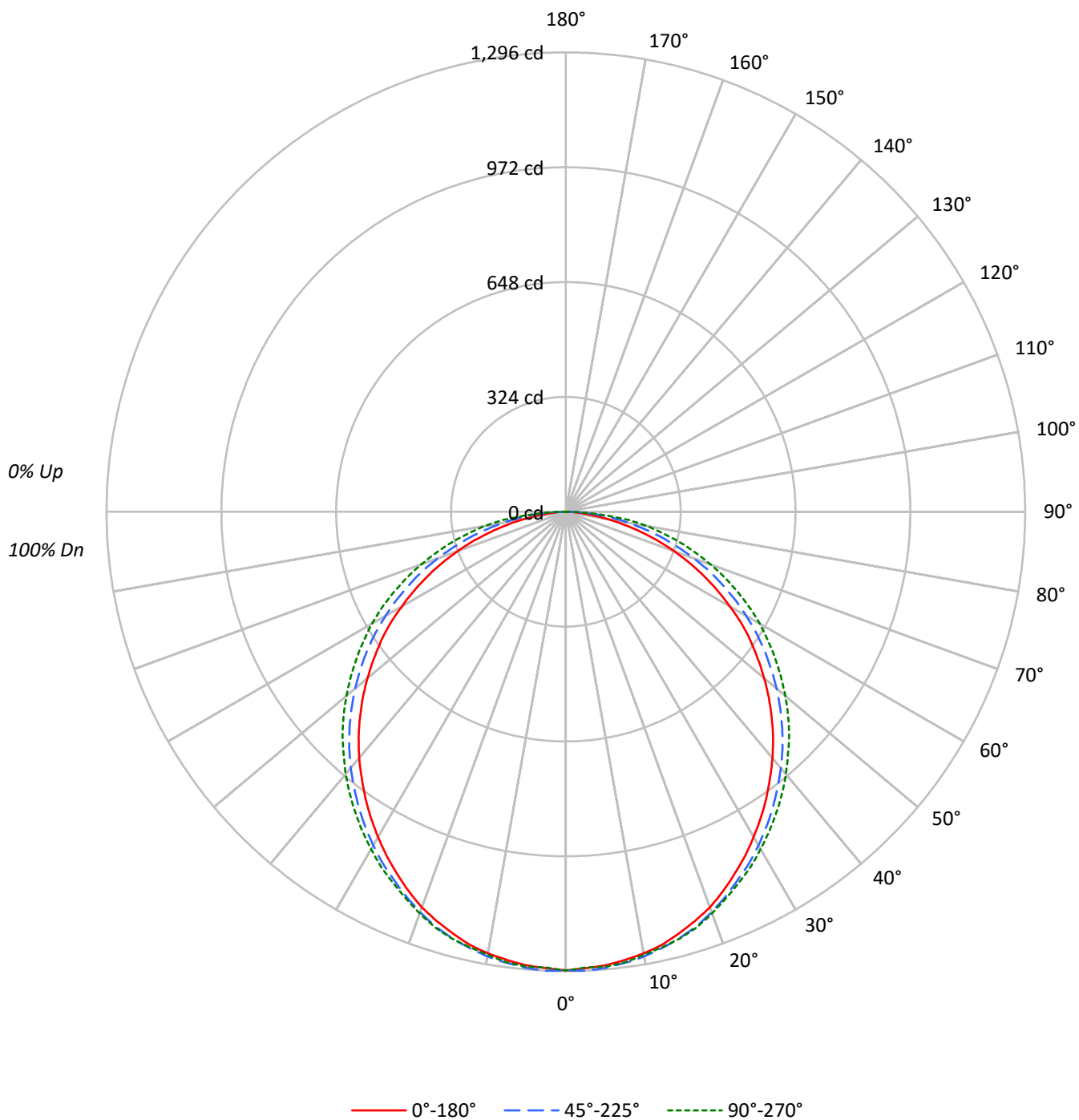
Lumens per Lamp: N/A
Luminaire Lumens: 3776.0 lumens
Efficiency: N/A
Efficacy: 156.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.1
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°	4052	4052	4052
5°	4037	4060	4049
10°	4023	4051	4035
15°	3992	4034	4039
20°	3957	4005	4019
25°	3893	3962	3990
30°	3832	3930	3973
35°	3770	3892	3959
40°	3708	3858	3949
45°	3638	3822	3946
50°	3559	3780	3936
55°	3478	3739	3936
60°	3349	3684	3959
65°	3192	3612	3962
70°	2978	3512	3973
75°	2650	3384	4042
80°	2177	3242	4194
85°	1437	3043	3790

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4294 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.4	3.2
10°-20°	350.3	9.3
20°-30°	528.0	14.0
30°-40°	635.9	16.8
40°-50°	664.3	17.6
50°-60°	610.3	16.2
60°-70°	480.6	12.7
70°-80°	294.7	7.8
80°-90°	89.4	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°	1000.8	26.5
0°-40°	1636.7	43.3
0°-60°	2911.3	77.1
0°-90°	3776.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3776.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1294	1294	1294	1294	1294	
5°	1284	1287	1292	1290	1288	122
15°	1232	1236	1244	1249	1246	348
25°	1127	1134	1147	1159	1155	519
35°	986	999	1018	1036	1036	617
45°	822	839	863	887	891	634
55°	637	655	685	714	721	568
65°	431	453	488	520	535	426
75°	219	245	280	313	334	233
85°	40	59	85	94	106	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1293.9	1293.9	1293.9	1293.9	1293.9
2.5°	1289.1	1292.3	1296.3	1289.9	1286.7
5°	1284.3	1286.7	1291.5	1289.9	1288.3
7.5°	1275.5	1277.1	1283.5	1283.5	1281.9
10°	1265.1	1268.3	1273.9	1273.1	1269.1
12.5°	1251.5	1253.9	1260.3	1260.3	1257.9
15°	1231.5	1236.3	1244.3	1249.1	1245.9
17.5°	1210.8	1215.6	1226.0	1230.7	1229.1
20°	1187.6	1191.6	1202.0	1209.2	1206.0
22.5°	1158.8	1163.6	1175.6	1183.6	1180.4
25°	1126.9	1134.0	1146.8	1158.8	1154.8
27.5°	1094.9	1102.9	1118.9	1130.8	1129.3
30°	1059.7	1070.1	1086.9	1102.1	1098.9
32.5°	1023.8	1035.7	1053.3	1069.3	1068.5
35°	986.2	999.0	1018.2	1036.5	1035.7
37.5°	946.2	961.4	981.4	1001.4	1002.2
40°	907.1	921.5	943.8	965.4	966.2
42.5°	865.5	880.7	904.7	927.1	927.9
45°	821.6	839.1	863.1	887.1	891.1
47.5°	776.8	795.2	820.0	845.5	850.3
50°	730.5	749.6	776.0	803.2	808.0
52.5°	683.3	703.3	730.5	757.6	764.8
55°	637.0	655.3	684.9	714.5	720.9
57.5°	588.2	605.0	637.0	668.1	676.1
60°	534.7	555.4	588.2	619.4	632.2
62.5°	482.7	505.1	538.7	569.8	584.2
65°	430.8	453.1	487.5	520.3	534.7
67.5°	378.0	401.2	438.0	469.1	485.1
70°	325.3	348.4	383.6	417.2	434.0
72.5°	272.5	297.3	331.7	366.0	382.8
75°	219.0	244.6	279.7	313.3	334.1
77.5°	168.6	193.4	228.6	262.9	280.5
80°	120.7	145.5	179.8	214.2	232.6
82.5°	76.7	99.9	133.5	162.2	179.0
85°	40.0	59.1	84.7	94.3	105.5
87.5°	12.0	23.2	32.8	36.8	45.6
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	16.37	18.04	16.74	18.35	18.67	17.12	18.78	17.49	19.10	19.41
	3H	18.14	19.64	18.51	19.97	20.33	19.22	20.72	19.59	21.05	21.41
	4H	18.76	20.18	19.16	20.53	20.91	20.10	21.52	20.50	21.87	22.25
	6H	19.17	20.49	19.58	20.86	21.25	20.87	22.19	21.28	22.55	22.94
	8H	19.28	20.54	19.70	20.93	21.33	21.18	22.44	21.60	22.83	23.23
	12H	19.33	20.54	19.76	20.92	21.35	21.39	22.60	21.82	22.98	23.41
4H	2H	17.14	18.57	17.54	18.91	19.29	17.72	19.15	18.12	19.49	19.87
	3H	19.14	20.34	19.55	20.73	21.13	20.05	21.25	20.46	21.65	22.05
	4H	19.89	20.98	20.32	21.39	21.83	21.09	22.17	21.52	22.59	23.02
	6H	20.43	21.38	20.88	21.82	22.27	22.02	22.97	22.47	23.41	23.86
	8H	20.58	21.47	21.03	21.91	22.37	22.40	23.29	22.86	23.74	24.20
	12H	20.66	21.47	21.14	21.94	22.41	22.68	23.48	23.16	23.96	24.42
8H	4H	20.34	21.24	20.80	21.68	22.14	21.39	22.28	21.85	22.72	23.19
	6H	21.02	21.77	21.51	22.25	22.73	22.47	23.22	22.96	23.70	24.18
	8H	21.24	21.91	21.75	22.42	22.90	22.96	23.63	23.47	24.13	24.62
	12H	21.39	21.98	21.89	22.47	23.03	23.33	23.93	23.84	24.42	24.97
12H	4H	20.43	21.23	20.91	21.71	22.17	21.42	22.22	21.89	22.69	23.16
	6H	21.15	21.82	21.66	22.32	22.81	22.52	23.19	23.03	23.70	24.18
	8H	21.44	22.03	21.95	22.52	23.08	23.08	23.67	23.58	24.16	24.72