

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: P1587669

Luminaire Tested: 22CZSP-SB-37HE-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587669
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-L945
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

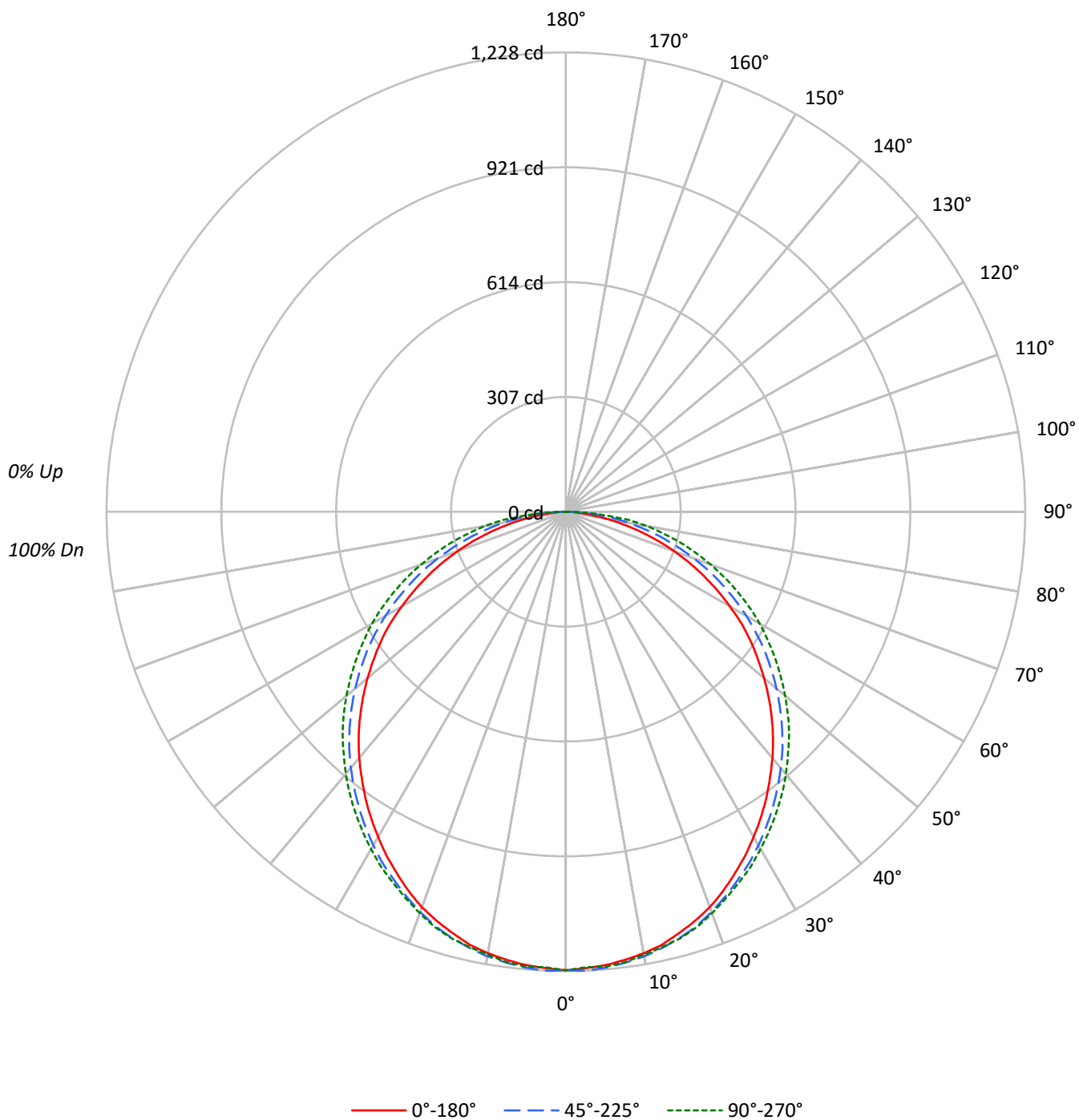
Lumens per Lamp: N/A
Luminaire Lumens: 3577.0 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	3838	3838	3838
5°	3824	3845	3836
10°	3810	3837	3823
15°	3782	3821	3826
20°	3749	3794	3807
25°	3688	3754	3780
30°	3630	3723	3764
35°	3571	3687	3751
40°	3513	3655	3741
45°	3447	3621	3738
50°	3371	3581	3729
55°	3294	3542	3728
60°	3172	3490	3750
65°	3024	3422	3753
70°	2821	3327	3764
75°	2509	3206	3829
80°	2061	3071	3973
85°	1362	2881	3589

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4069 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.9	3.2
10°-20°	331.9	9.3
20°-30°	500.2	14.0
30°-40°	602.4	16.8
40°-50°	629.3	17.6
50°-60°	578.2	16.2
60°-70°	455.3	12.7
70°-80°	279.1	7.8
80°-90°	84.6	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°	948.0	26.5
0°-40°	1550.4	43.3
0°-60°	2757.9	77.1
0°-90°	3577.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3577.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1226	1226	1226	1226	1226	
5°	1217	1219	1223	1222	1220	116
15°	1167	1171	1179	1183	1180	329
25°	1068	1074	1086	1098	1094	492
35°	934	946	964	982	981	584
45°	778	795	818	840	844	600
55°	603	621	649	677	683	538
65°	408	429	462	493	506	403
75°	207	232	265	297	316	220
85°	38	56	80	89	100	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1225.7	1225.7	1225.7	1225.7	1225.7
2.5°	1221.2	1224.2	1228.0	1221.9	1218.9
5°	1216.6	1218.9	1223.4	1221.9	1220.4
7.5°	1208.3	1209.8	1215.9	1215.9	1214.3
10°	1198.4	1201.5	1206.8	1206.0	1202.2
12.5°	1185.6	1187.8	1193.9	1193.9	1191.6
15°	1166.6	1171.2	1178.8	1183.3	1180.3
17.5°	1147.0	1151.5	1161.3	1165.9	1164.4
20°	1125.0	1128.8	1138.6	1145.4	1142.4
22.5°	1097.8	1102.3	1113.6	1121.2	1118.2
25°	1067.5	1074.3	1086.4	1097.8	1094.0
27.5°	1037.2	1044.8	1059.9	1071.3	1069.7
30°	1003.9	1013.7	1029.6	1044.0	1041.0
32.5°	969.8	981.2	997.8	1013.0	1012.2
35°	934.2	946.3	964.5	981.9	981.2
37.5°	896.4	910.8	929.7	948.6	949.4
40°	859.3	872.9	894.1	914.5	915.3
42.5°	819.9	834.3	857.0	878.2	879.0
45°	778.3	794.9	817.6	840.3	844.1
47.5°	735.9	753.3	776.8	801.0	805.5
50°	692.0	710.1	735.1	760.9	765.4
52.5°	647.3	666.2	692.0	717.7	724.5
55°	603.4	620.8	648.8	676.8	682.9
57.5°	557.2	573.1	603.4	632.9	640.5
60°	506.5	526.2	557.2	586.7	598.8
62.5°	457.3	478.5	510.3	539.8	553.4
65°	408.1	429.3	461.8	492.9	506.5
67.5°	358.1	380.0	414.9	444.4	459.5
70°	308.1	330.1	363.4	395.2	411.1
72.5°	258.2	281.6	314.2	346.7	362.6
75°	207.4	231.7	265.0	296.8	316.5
77.5°	159.7	183.2	216.5	249.1	265.7
80°	114.3	137.8	170.3	202.9	220.3
82.5°	72.7	94.6	126.4	153.7	169.6
85°	37.9	56.0	80.2	89.3	99.9
87.5°	11.4	22.0	31.0	34.8	43.2
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	16.19	17.85	16.55	18.16	18.48	16.93	18.59	17.30	18.91	19.22
	3H	17.95	19.46	18.33	19.78	20.14	19.03	20.54	19.40	20.86	21.22
	4H	18.57	20.00	18.97	20.34	20.72	19.91	21.34	20.31	21.68	22.06
	6H	18.99	20.31	19.40	20.67	21.06	20.68	22.00	21.09	22.36	22.75
	8H	19.09	20.35	19.52	20.74	21.14	20.99	22.25	21.41	22.64	23.04
	12H	19.14	20.35	19.57	20.74	21.16	21.20	22.41	21.63	22.80	23.22
4H	2H	16.96	18.38	17.35	18.73	19.10	17.54	18.96	17.93	19.31	19.68
	3H	18.95	20.15	19.36	20.54	20.94	19.86	21.06	20.27	21.46	21.86
	4H	19.70	20.79	20.13	21.20	21.64	20.90	21.99	21.33	22.40	22.83
	6H	20.24	21.19	20.69	21.63	22.09	21.83	22.78	22.28	23.22	23.68
	8H	20.39	21.28	20.85	21.72	22.19	22.21	23.11	22.67	23.55	24.01
	12H	20.47	21.28	20.95	21.75	22.22	22.49	23.29	22.97	23.77	24.24
8H	4H	20.16	21.05	20.61	21.49	21.95	21.20	22.09	21.66	22.53	23.00
	6H	20.83	21.58	21.33	22.06	22.54	22.28	23.03	22.78	23.51	23.99
	8H	21.05	21.72	21.56	22.23	22.71	22.77	23.44	23.28	23.94	24.43
	12H	21.20	21.79	21.71	22.28	22.84	23.15	23.74	23.65	24.23	24.79
12H	4H	20.24	21.04	20.72	21.52	21.99	21.23	22.03	21.71	22.50	22.97
	6H	20.96	21.63	21.47	22.14	22.62	22.34	23.01	22.84	23.51	24.00
	8H	21.25	21.84	21.76	22.33	22.89	22.89	23.48	23.39	23.97	24.53