

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: P1587668

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587668
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: 22CZSP-SB-37HE-L945-S
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

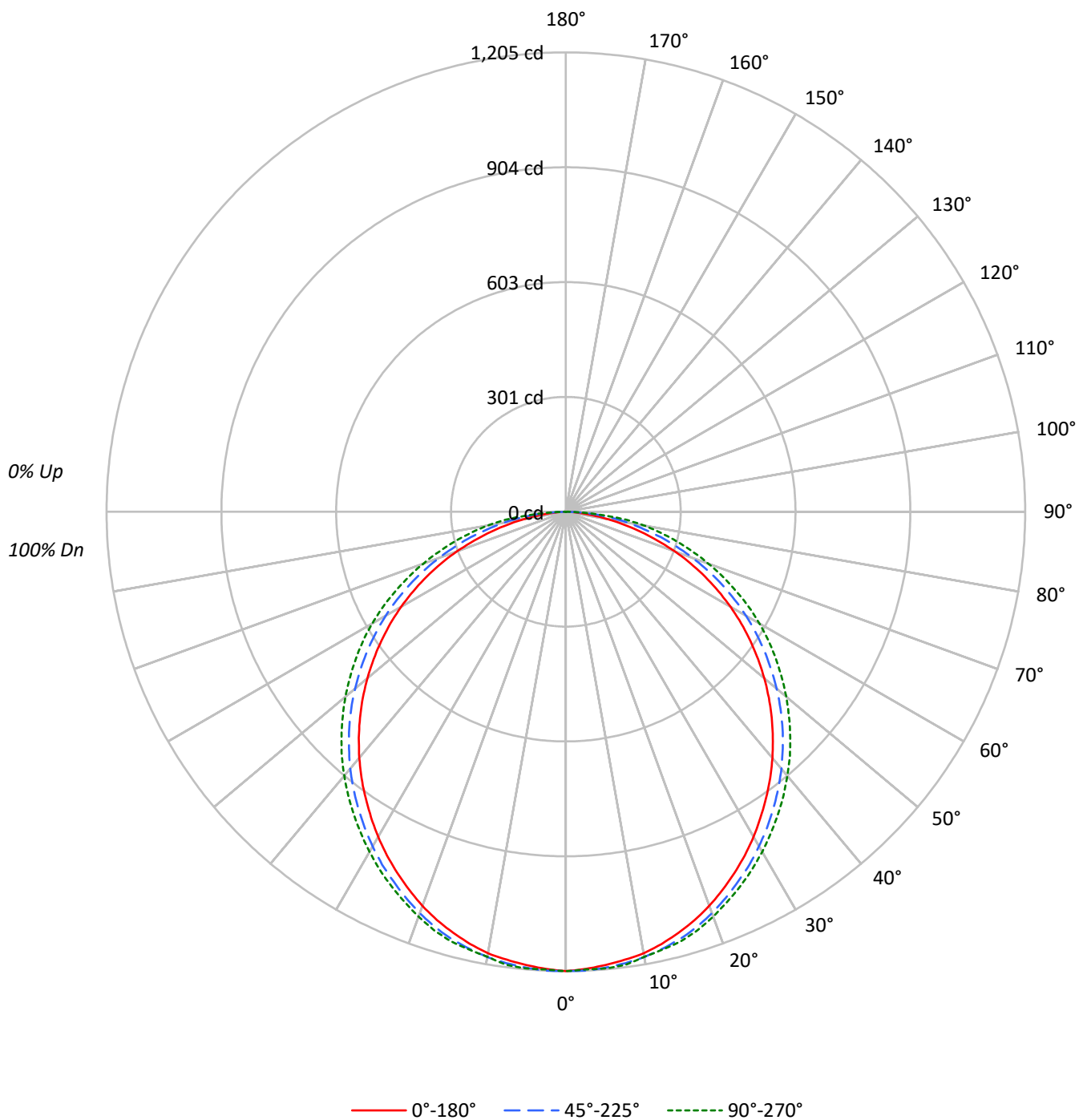
Lumens per Lamp: N/A
Luminaire Lumens: 3505.0 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	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°	3773	3773	3773
5°	3752	3773	3780
10°	3740	3771	3769
15°	3706	3760	3781
20°	3666	3733	3766
25°	3613	3697	3744
30°	3560	3664	3724
35°	3502	3629	3706
40°	3446	3597	3696
45°	3382	3560	3686
50°	3310	3515	3677
55°	3227	3470	3672
60°	3126	3419	3674
65°	2983	3346	3654
70°	2789	3245	3645
75°	2472	3120	3659
80°	2012	2965	3767
85°	1301	2738	3251

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3817 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.0	3.3
10°-20°	326.5	9.3
20°-30°	492.3	14.0
30°-40°	592.4	16.9
40°-50°	617.9	17.6
50°-60°	566.4	16.2
60°-70°	444.7	12.7
70°-80°	270.7	7.7
80°-90°	80.1	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°	932.9	26.6
0°-40°	1525.2	43.5
0°-60°	2709.5	77.3
0°-90°	3505.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3505.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1205	1205	1205	1205	1205	
5°	1194	1201	1200	1199	1203	113
15°	1143	1154	1160	1161	1166	322
25°	1046	1060	1070	1077	1084	482
35°	916	930	949	963	970	573
45°	764	780	804	823	832	589
55°	591	606	636	661	673	528
65°	403	418	452	482	493	398
75°	204	223	258	289	302	217
85°	36	51	76	85	90	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1204.9	1204.9	1204.9	1204.9	1204.9
2.5°	1200.4	1206.4	1204.9	1199.6	1201.9
5°	1193.6	1201.1	1200.4	1198.9	1202.6
7.5°	1185.3	1193.6	1194.3	1194.3	1198.9
10°	1176.2	1184.5	1186.0	1183.8	1185.3
12.5°	1161.2	1171.0	1174.0	1174.0	1176.2
15°	1143.1	1154.4	1159.7	1161.2	1166.4
17.5°	1123.5	1135.5	1142.3	1146.1	1150.6
20°	1100.1	1112.9	1120.4	1125.0	1130.3
22.5°	1073.7	1088.0	1096.3	1100.8	1106.9
25°	1045.8	1060.1	1069.9	1076.7	1083.5
27.5°	1016.4	1030.0	1043.5	1051.8	1057.9
30°	984.7	999.1	1013.4	1023.9	1030.0
32.5°	950.8	965.9	982.5	993.8	1000.6
35°	916.1	930.4	949.3	962.9	969.6
37.5°	880.7	895.8	915.4	929.7	938.0
40°	843.0	858.8	879.9	895.8	904.1
42.5°	803.8	818.8	842.2	860.3	870.1
45°	763.8	779.6	803.8	822.6	832.4
47.5°	722.3	737.4	763.8	785.7	794.0
50°	679.4	693.7	721.6	745.0	754.8
52.5°	635.6	650.7	678.6	703.5	714.0
55°	591.1	606.2	635.6	661.3	672.6
57.5°	545.9	561.0	591.1	617.5	631.1
60°	499.2	514.2	545.9	573.0	586.6
62.5°	450.9	466.7	499.2	527.0	541.4
65°	402.6	417.7	451.6	481.8	493.1
67.5°	354.4	369.5	402.6	432.8	446.4
70°	304.6	322.0	354.4	386.0	398.1
72.5°	252.6	272.2	304.6	337.8	349.9
75°	204.3	223.2	257.9	288.8	302.4
77.5°	156.8	177.2	209.6	241.3	254.9
80°	111.6	131.2	164.4	194.5	208.9
82.5°	70.9	88.2	121.4	148.5	159.1
85°	36.2	51.3	76.2	85.2	90.5
87.5°	10.6	18.1	27.1	33.9	37.7
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	16.11	17.77	16.48	18.09	18.40	16.85	18.51	17.21	18.82	19.14
	3H	17.88	19.39	18.26	19.71	20.07	18.93	20.43	19.30	20.76	21.12
	4H	18.50	19.92	18.90	20.27	20.64	19.79	21.21	20.19	21.56	21.93
	6H	18.91	20.23	19.32	20.59	20.98	20.54	21.86	20.95	22.22	22.61
	8H	19.01	20.27	19.44	20.66	21.06	20.83	22.09	21.26	22.48	22.88
	12H	19.06	20.27	19.49	20.65	21.08	21.03	22.23	21.46	22.62	23.04
4H	2H	16.88	18.30	17.28	18.65	19.02	17.45	18.87	17.85	19.22	19.59
	3H	18.87	20.07	19.28	20.46	20.86	19.77	20.96	20.17	21.36	21.76
	4H	19.62	20.70	20.05	21.11	21.55	20.78	21.87	21.21	22.28	22.72
	6H	20.14	21.09	20.60	21.53	21.99	21.69	22.64	22.14	23.08	23.53
	8H	20.29	21.18	20.74	21.62	22.08	22.06	22.95	22.52	23.39	23.85
	12H	20.37	21.17	20.85	21.64	22.11	22.31	23.11	22.79	23.59	24.05
8H	4H	20.06	20.95	20.52	21.39	21.86	21.08	21.97	21.54	22.41	22.88
	6H	20.72	21.47	21.22	21.95	22.43	22.14	22.88	22.63	23.37	23.84
	8H	20.93	21.60	21.44	22.10	22.59	22.61	23.28	23.12	23.78	24.27
	12H	21.07	21.66	21.58	22.15	22.71	22.96	23.55	23.47	24.04	24.60
12H	4H	20.14	20.94	20.62	21.42	21.89	21.11	21.91	21.59	22.38	22.85
	6H	20.85	21.52	21.35	22.02	22.50	22.19	22.86	22.70	23.36	23.85
	8H	21.12	21.71	21.63	22.20	22.76	22.73	23.32	23.23	23.81	24.37