

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: P1587618

Luminaire Tested: 22CZSP-SB-33HE-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587618
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-33HE-L845-S
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 3000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

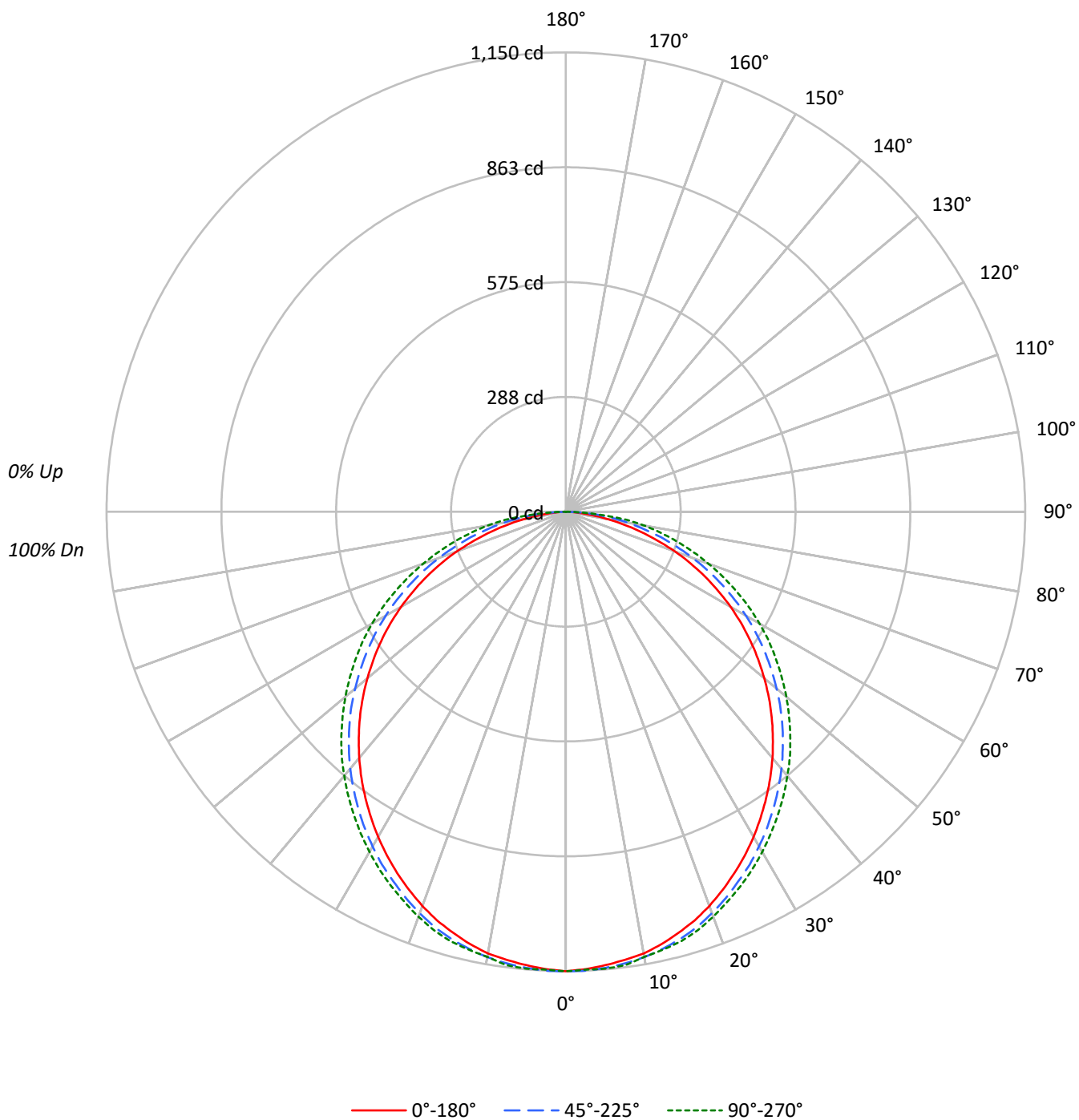
Lumens per Lamp: N/A
Luminaire Lumens: 3346.0 lumens
Efficiency: N/A
Efficacy: 154.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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°	3602	3602	3602
5°	3581	3602	3609
10°	3570	3600	3598
15°	3537	3589	3610
20°	3500	3564	3596
25°	3450	3529	3574
30°	3399	3498	3555
35°	3343	3464	3539
40°	3289	3434	3528
45°	3229	3398	3519
50°	3159	3355	3510
55°	3081	3313	3505
60°	2984	3263	3507
65°	2848	3195	3488
70°	2662	3097	3480
75°	2360	2979	3492
80°	1920	2829	3596
85°	1243	2612	3104

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3644 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	3.3
10°-20°	311.7	9.3
20°-30°	470.0	14.0
30°-40°	565.5	16.9
40°-50°	589.9	17.6
50°-60°	540.7	16.2
60°-70°	424.6	12.7
70°-80°	258.4	7.7
80°-90°	76.4	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°	890.5	26.6
0°-40°	1456.0	43.5
0°-60°	2586.6	77.3
0°-90°	3346.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3346.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1150	1150	1150	1150	1150	
5°	1139	1147	1146	1144	1148	108
15°	1091	1102	1107	1108	1114	308
25°	998	1012	1021	1028	1034	460
35°	875	888	906	919	926	547
45°	729	744	767	785	795	562
55°	564	579	607	631	642	504
65°	384	399	431	460	471	380
75°	195	213	246	276	289	207
85°	35	49	73	81	86	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1150.2	1150.2	1150.2	1150.2	1150.2
2.5°	1145.9	1151.7	1150.2	1145.2	1147.4
5°	1139.4	1146.6	1145.9	1144.5	1148.1
7.5°	1131.5	1139.4	1140.2	1140.2	1144.5
10°	1122.9	1130.8	1132.2	1130.1	1131.5
12.5°	1108.5	1117.8	1120.7	1120.7	1122.9
15°	1091.2	1102.0	1107.1	1108.5	1113.5
17.5°	1072.5	1084.0	1090.5	1094.1	1098.4
20°	1050.2	1062.4	1069.6	1073.9	1079.0
22.5°	1025.0	1038.7	1046.6	1050.9	1056.7
25°	998.4	1012.0	1021.4	1027.9	1034.4
27.5°	970.3	983.2	996.2	1004.1	1009.9
30°	940.1	953.7	967.4	977.5	983.2
32.5°	907.7	922.1	937.9	948.7	955.2
35°	874.6	888.2	906.2	919.2	925.7
37.5°	840.7	855.1	873.8	887.5	895.4
40°	804.7	819.9	840.0	855.1	863.0
42.5°	767.3	781.7	804.0	821.3	830.6
45°	729.2	744.3	767.3	785.3	794.7
47.5°	689.6	704.0	729.2	750.0	757.9
50°	648.5	662.2	688.8	711.2	720.5
52.5°	606.8	621.2	647.8	671.6	681.6
55°	564.3	578.7	606.8	631.3	642.1
57.5°	521.1	535.5	564.3	589.5	602.5
60°	476.5	490.9	521.1	547.0	560.0
62.5°	430.4	445.6	476.5	503.1	516.8
65°	384.4	398.8	431.2	460.0	470.7
67.5°	338.3	352.7	384.4	413.2	426.1
70°	290.8	307.4	338.3	368.5	380.1
72.5°	241.1	259.8	290.8	322.5	334.0
75°	195.1	213.1	246.2	275.7	288.6
77.5°	149.7	169.2	200.1	230.3	243.3
80°	106.5	125.2	156.9	185.7	199.4
82.5°	67.7	84.2	115.9	141.8	151.9
85°	34.6	48.9	72.7	81.3	86.4
87.5°	10.1	17.3	25.9	32.4	36.0
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	15.95	17.61	16.32	17.93	18.24	16.69	18.35	17.05	18.66	18.97
	3H	17.72	19.22	18.10	19.55	19.91	18.77	20.27	19.14	20.60	20.96
	4H	18.34	19.76	18.74	20.11	20.48	19.63	21.05	20.03	21.40	21.77
	6H	18.75	20.07	19.16	20.43	20.82	20.38	21.69	20.79	22.06	22.45
	8H	18.85	20.11	19.27	20.50	20.90	20.67	21.93	21.09	22.32	22.72
	12H	18.90	20.11	19.33	20.49	20.92	20.86	22.07	21.29	22.45	22.88
4H	2H	16.72	18.14	17.12	18.49	18.86	17.29	18.71	17.69	19.06	19.43
	3H	18.71	19.91	19.12	20.30	20.70	19.60	20.80	20.01	21.20	21.60
	4H	19.45	20.54	19.88	20.95	21.38	20.62	21.71	21.05	22.12	22.55
	6H	19.98	20.93	20.44	21.37	21.83	21.53	22.48	21.98	22.92	23.37
	8H	20.12	21.01	20.58	21.46	21.92	21.90	22.78	22.35	23.23	23.69
	12H	20.20	21.01	20.68	21.48	21.95	22.15	22.95	22.63	23.42	23.89
8H	4H	19.90	20.79	20.36	21.23	21.69	20.92	21.81	21.38	22.25	22.72
	6H	20.56	21.30	21.05	21.79	22.27	21.98	22.72	22.47	23.21	23.68
	8H	20.77	21.44	21.28	21.94	22.43	22.45	23.12	22.96	23.62	24.11
	12H	20.91	21.50	21.41	21.99	22.55	22.80	23.39	23.31	23.88	24.44
12H	4H	19.98	20.78	20.46	21.26	21.72	20.95	21.75	21.43	22.22	22.69
	6H	20.69	21.35	21.19	21.86	22.34	22.03	22.70	22.54	23.20	23.69
	8H	20.96	21.55	21.47	22.04	22.60	22.57	23.16	23.07	23.65	24.20