

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: P1587648

Luminaire Tested: 22CZSP-SB-35-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587648
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-35-L945-S
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

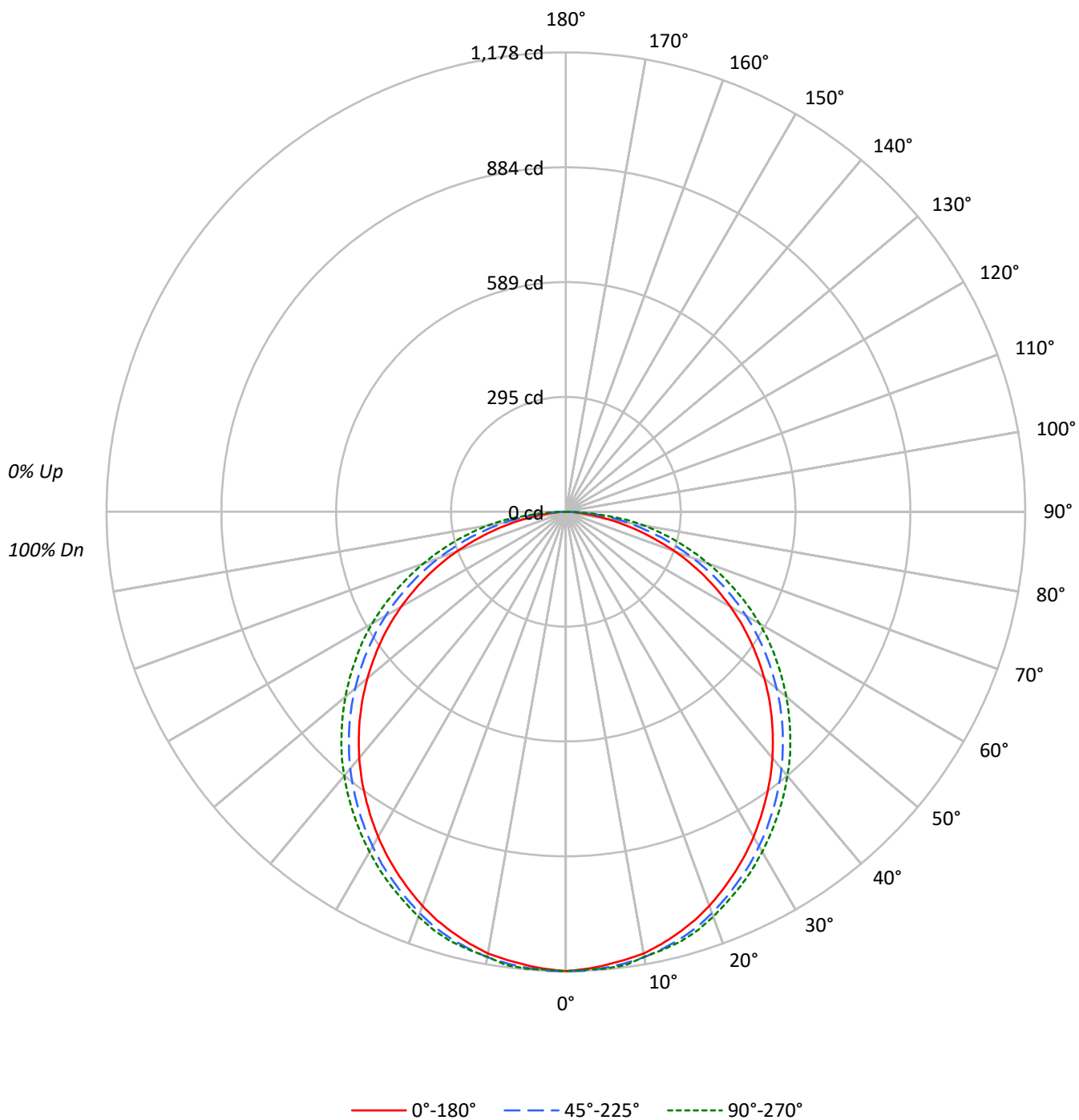
Lumens per Lamp: N/A
Luminaire Lumens: 3427.0 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
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°	3689	3689	3689
5°	3668	3689	3696
10°	3657	3687	3685
15°	3623	3676	3697
20°	3584	3651	3683
25°	3533	3614	3660
30°	3481	3582	3641
35°	3424	3548	3624
40°	3369	3517	3613
45°	3307	3480	3604
50°	3236	3437	3595
55°	3155	3393	3590
60°	3056	3343	3592
65°	2917	3272	3572
70°	2726	3172	3564
75°	2417	3050	3576
80°	1967	2898	3682
85°	1272	2677	3180

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3733 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.5	3.3
10°-20°	319.3	9.3
20°-30°	481.3	14.0
30°-40°	579.2	16.9
40°-50°	604.2	17.6
50°-60°	553.8	16.2
60°-70°	434.8	12.7
70°-80°	264.6	7.7
80°-90°	78.3	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°	912.1	26.6
0°-40°	1491.3	43.5
0°-60°	2649.2	77.3
0°-90°	3427.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3427.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1178	1178	1178	1178	1178	
5°	1167	1174	1174	1172	1176	111
15°	1118	1129	1134	1135	1140	315
25°	1022	1036	1046	1053	1059	471
35°	896	910	928	941	948	561
45°	747	762	786	804	814	576
55°	578	593	622	646	658	516
65°	394	408	442	471	482	389
75°	200	218	252	282	296	212
85°	35	50	74	83	88	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1178.1	1178.1	1178.1	1178.1	1178.1
2.5°	1173.7	1179.6	1178.1	1172.9	1175.1
5°	1167.0	1174.4	1173.7	1172.2	1175.9
7.5°	1158.9	1167.0	1167.8	1167.8	1172.2
10°	1150.1	1158.2	1159.7	1157.4	1158.9
12.5°	1135.3	1144.9	1147.9	1147.9	1150.1
15°	1117.6	1128.7	1133.9	1135.3	1140.5
17.5°	1098.5	1110.3	1116.9	1120.6	1125.0
20°	1075.6	1088.1	1095.5	1099.9	1105.1
22.5°	1049.8	1063.8	1071.9	1076.3	1082.2
25°	1022.5	1036.5	1046.1	1052.8	1059.4
27.5°	993.8	1007.0	1020.3	1028.4	1034.3
30°	962.8	976.8	990.8	1001.2	1007.0
32.5°	929.6	944.4	960.6	971.7	978.3
35°	895.7	909.7	928.2	941.4	948.1
37.5°	861.1	875.8	895.0	909.0	917.1
40°	824.2	839.7	860.3	875.8	883.9
42.5°	785.9	800.6	823.5	841.2	850.8
45°	746.8	762.3	785.9	804.3	813.9
47.5°	706.3	721.0	746.8	768.2	776.3
50°	664.2	678.2	705.5	728.4	738.0
52.5°	621.5	636.2	663.5	687.8	698.2
55°	578.0	592.7	621.5	646.5	657.6
57.5°	533.8	548.5	578.0	603.8	617.1
60°	488.0	502.8	533.8	560.3	573.6
62.5°	440.9	456.3	488.0	515.3	529.3
65°	393.7	408.4	441.6	471.1	482.1
67.5°	346.5	361.2	393.7	423.2	436.4
70°	297.8	314.8	346.5	377.5	389.3
72.5°	247.0	266.1	297.8	330.3	342.1
75°	199.8	218.2	252.1	282.4	295.6
77.5°	153.3	173.2	204.9	235.9	249.2
80°	109.1	128.3	160.7	190.2	204.2
82.5°	69.3	86.3	118.7	145.2	155.6
85°	35.4	50.1	74.5	83.3	88.5
87.5°	10.3	17.7	26.5	33.2	36.9
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	16.03	17.69	16.40	18.01	18.32	16.77	18.43	17.13	18.74	19.06
	3H	17.80	19.31	18.18	19.63	19.99	18.85	20.35	19.23	20.68	21.04
	4H	18.42	19.84	18.82	20.19	20.56	19.71	21.13	20.11	21.48	21.86
	6H	18.83	20.15	19.24	20.51	20.90	20.46	21.78	20.87	22.14	22.53
	8H	18.93	20.19	19.36	20.58	20.98	20.75	22.01	21.18	22.40	22.80
	12H	18.98	20.19	19.41	20.57	21.00	20.95	22.16	21.38	22.54	22.97
4H	2H	16.80	18.22	17.20	18.57	18.95	17.37	18.79	17.77	19.14	19.52
	3H	18.79	19.99	19.20	20.39	20.79	19.69	20.88	20.10	21.28	21.68
	4H	19.54	20.62	19.97	21.03	21.47	20.71	21.79	21.14	22.20	22.64
	6H	20.07	21.01	20.52	21.45	21.91	21.61	22.56	22.06	23.00	23.45
	8H	20.21	21.10	20.67	21.54	22.00	21.98	22.87	22.44	23.31	23.77
	12H	20.29	21.09	20.77	21.56	22.03	22.23	23.03	22.71	23.51	23.98
8H	4H	19.98	20.87	20.44	21.31	21.78	21.00	21.89	21.46	22.33	22.80
	6H	20.65	21.39	21.14	21.87	22.35	22.06	22.80	22.55	23.29	23.76
	8H	20.85	21.52	21.36	22.03	22.51	22.53	23.20	23.04	23.70	24.19
	12H	20.99	21.58	21.50	22.07	22.63	22.89	23.47	23.39	23.96	24.52
12H	4H	20.06	20.86	20.54	21.34	21.81	21.03	21.83	21.51	22.31	22.77
	6H	20.77	21.44	21.28	21.94	22.43	22.11	22.78	22.62	23.28	23.77
	8H	21.05	21.64	21.55	22.13	22.68	22.65	23.24	23.15	23.73	24.29