

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: P1587633

Luminaire Tested: 22CZSP-SB-35-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587633
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-35-L830
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

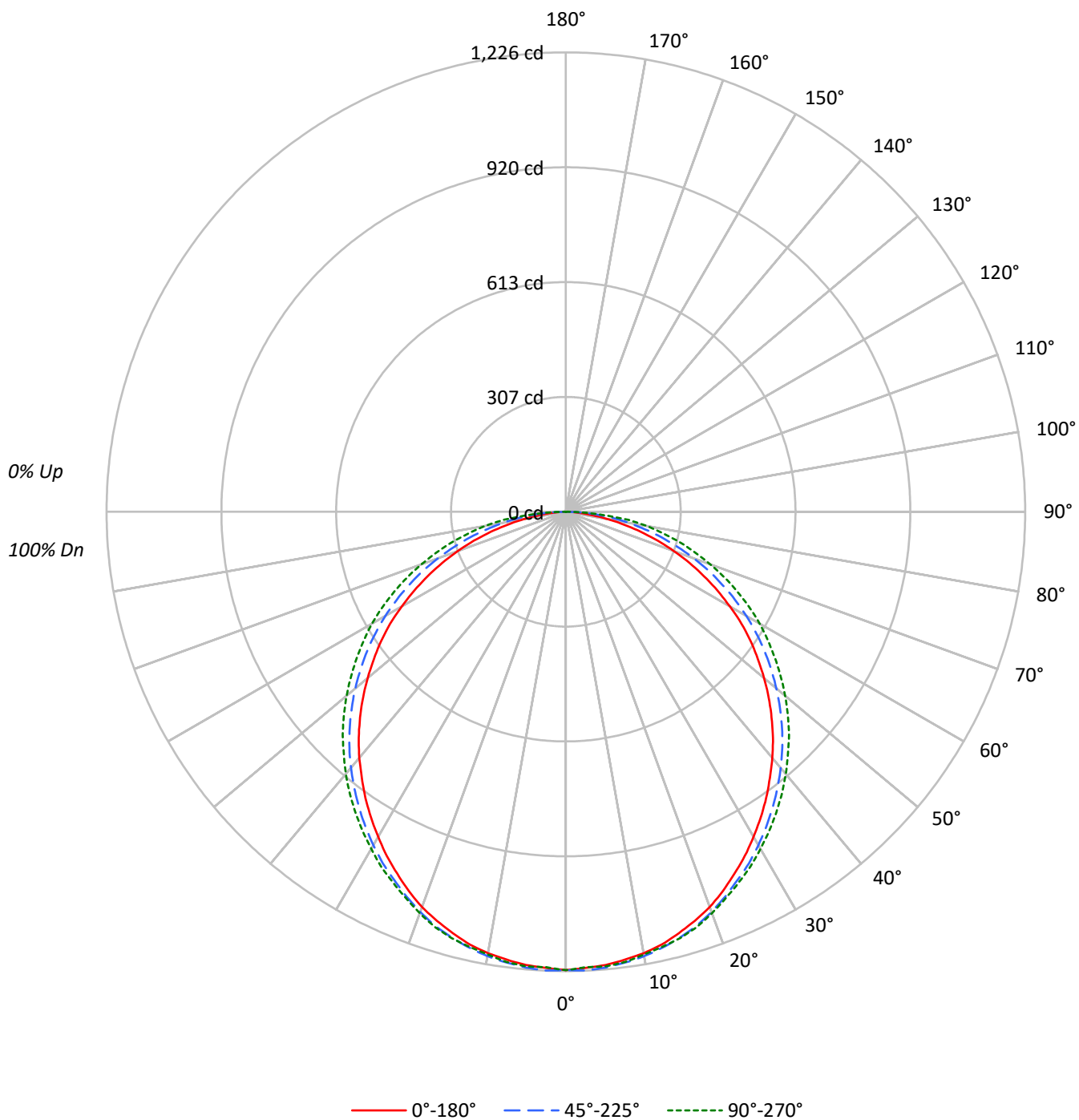
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3570.0 lumens
Efficiency: N/A
Efficacy: 144.5 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): 24.7
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	3831	3831	3831
5°	3817	3838	3829
10°	3803	3830	3815
15°	3775	3814	3819
20°	3741	3787	3799
25°	3681	3746	3772
30°	3623	3716	3756
35°	3564	3680	3743
40°	3506	3647	3734
45°	3440	3614	3731
50°	3364	3574	3721
55°	3288	3535	3721
60°	3166	3483	3743
65°	3018	3415	3745
70°	2815	3321	3756
75°	2504	3200	3821
80°	2058	3066	3965
85°	1358	2878	3582

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4062 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	3.2
10°-20°	331.2	9.3
20°-30°	499.2	14.0
30°-40°	601.2	16.8
40°-50°	628.1	17.6
50°-60°	577.0	16.2
60°-70°	454.4	12.7
70°-80°	278.6	7.8
80°-90°	84.5	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°	946.2	26.5
0°-40°	1547.4	43.3
0°-60°	2752.5	77.1
0°-90°	3570.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3570.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1223	1223	1223	1223	1223	
5°	1214	1216	1221	1220	1218	115
15°	1164	1169	1176	1181	1178	329
25°	1065	1072	1084	1096	1092	491
35°	932	944	963	980	979	583
45°	777	793	816	839	842	599
55°	602	620	648	676	682	537
65°	407	428	461	492	506	403
75°	207	231	264	296	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°	1223.3	1223.3	1223.3	1223.3	1223.3
2.5°	1218.8	1221.8	1225.6	1219.5	1216.5
5°	1214.2	1216.5	1221.0	1219.5	1218.0
7.5°	1205.9	1207.4	1213.5	1213.5	1212.0
10°	1196.1	1199.1	1204.4	1203.7	1199.9
12.5°	1183.2	1185.5	1191.6	1191.6	1189.3
15°	1164.4	1168.9	1176.4	1181.0	1178.0
17.5°	1144.7	1149.2	1159.1	1163.6	1162.1
20°	1122.8	1126.6	1136.4	1143.2	1140.2
22.5°	1095.6	1100.1	1111.5	1119.0	1116.0
25°	1065.4	1072.2	1084.3	1095.6	1091.8
27.5°	1035.2	1042.7	1057.8	1069.2	1067.6
30°	1001.9	1011.7	1027.6	1042.0	1038.9
32.5°	967.9	979.2	995.9	1011.0	1010.2
35°	932.4	944.5	962.6	980.0	979.2
37.5°	894.6	909.0	927.9	946.8	947.5
40°	857.6	871.2	892.3	912.7	913.5
42.5°	818.3	832.7	855.3	876.5	877.2
45°	776.7	793.4	816.0	838.7	842.5
47.5°	734.4	751.8	775.2	799.4	803.9
50°	690.6	708.7	733.7	759.4	763.9
52.5°	646.0	664.9	690.6	716.3	723.1
55°	602.2	619.6	647.5	675.5	681.5
57.5°	556.1	572.0	602.2	631.7	639.2
60°	505.5	525.1	556.1	585.6	597.7
62.5°	456.4	477.5	509.3	538.7	552.3
65°	407.3	428.4	460.9	491.9	505.5
67.5°	357.4	379.3	414.1	443.5	458.6
70°	307.5	329.4	362.7	394.4	410.3
72.5°	257.7	281.1	313.6	346.1	361.9
75°	207.0	231.2	264.5	296.2	315.8
77.5°	159.4	182.9	216.1	248.6	265.2
80°	114.1	137.5	170.0	202.5	219.9
82.5°	72.5	94.4	126.2	153.4	169.3
85°	37.8	55.9	80.1	89.2	99.7
87.5°	11.3	21.9	31.0	34.8	43.1
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	16.18	17.84	16.54	18.16	18.47	16.93	18.59	17.29	18.90	19.22
	3H	17.94	19.45	18.32	19.78	20.14	19.02	20.53	19.40	20.85	21.21
	4H	18.57	19.99	18.96	20.34	20.71	19.91	21.33	20.30	21.68	22.05
	6H	18.98	20.30	19.39	20.66	21.05	20.67	21.99	21.08	22.36	22.75
	8H	19.09	20.35	19.51	20.74	21.13	20.98	22.25	21.41	22.64	23.03
	12H	19.14	20.35	19.57	20.73	21.16	21.20	22.41	21.63	22.79	23.22
4H	2H	16.95	18.37	17.35	18.72	19.09	17.53	18.95	17.93	19.30	19.67
	3H	18.94	20.14	19.35	20.54	20.94	19.86	21.06	20.27	21.45	21.85
	4H	19.70	20.78	20.13	21.20	21.63	20.89	21.98	21.32	22.39	22.83
	6H	20.23	21.19	20.69	21.63	22.08	21.82	22.78	22.28	23.22	23.67
	8H	20.38	21.27	20.84	21.71	22.18	22.21	23.10	22.67	23.54	24.00
	12H	20.47	21.27	20.95	21.74	22.21	22.48	23.29	22.96	23.76	24.23
8H	4H	20.15	21.04	20.61	21.48	21.95	21.19	22.08	21.65	22.53	22.99
	6H	20.83	21.57	21.32	22.06	22.53	22.28	23.02	22.77	23.51	23.98
	8H	21.05	21.72	21.55	22.22	22.71	22.76	23.43	23.27	23.94	24.42
	12H	21.19	21.79	21.70	22.28	22.83	23.14	23.73	23.64	24.22	24.78
12H	4H	20.23	21.04	20.71	21.51	21.98	21.22	22.02	21.70	22.50	22.97
	6H	20.95	21.62	21.46	22.13	22.61	22.33	23.00	22.84	23.50	23.99
	8H	21.25	21.84	21.75	22.33	22.89	22.88	23.48	23.39	23.96	24.52