

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: P1587715

Luminaire Tested: 22CZSP-SB-47-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587715
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-47-L835
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 4500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

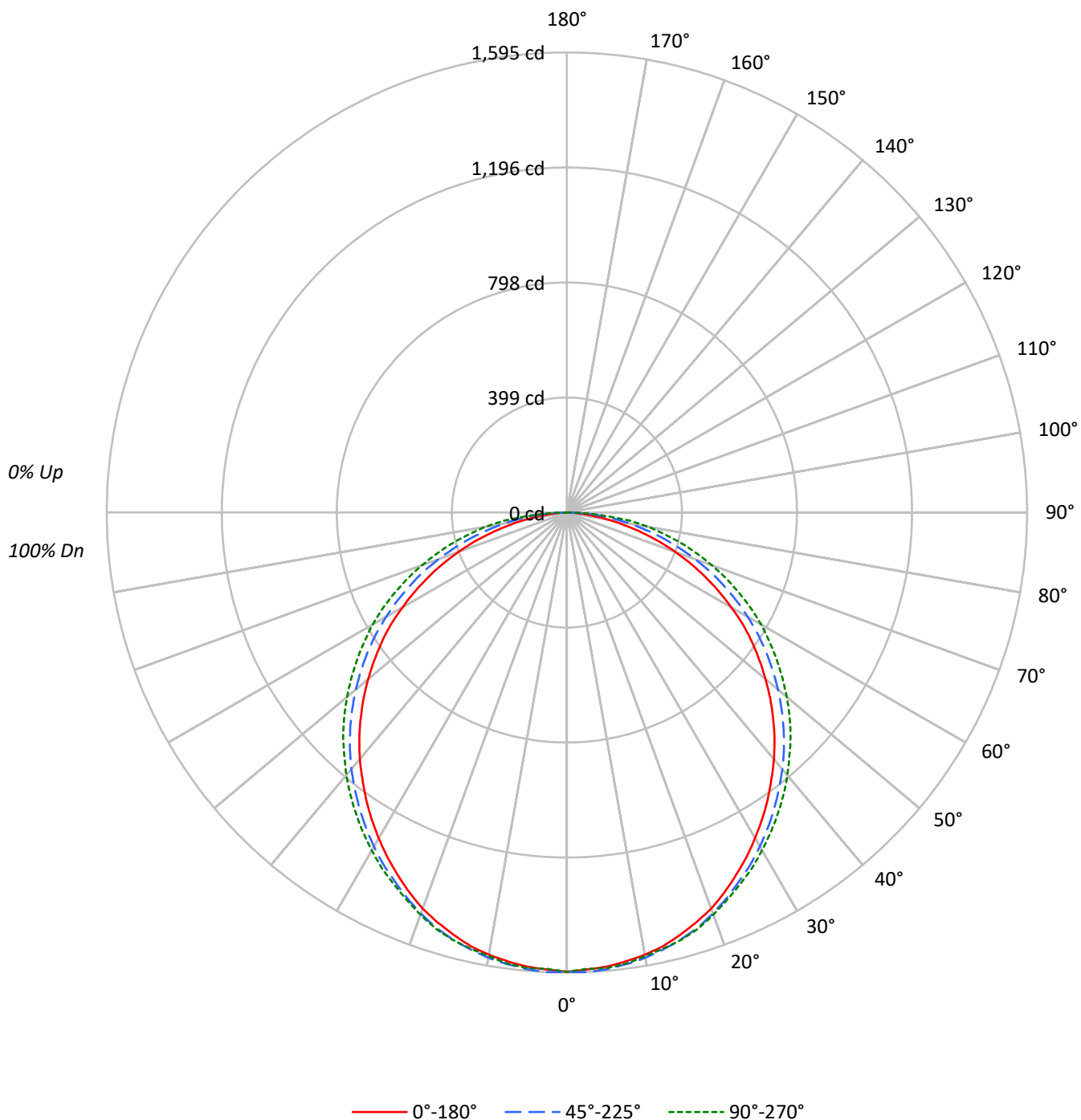
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4647.0 lumens
Efficiency: N/A
Efficacy: 140.4 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): 33.1
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°	4986	4986	4986
5°	4968	4996	4984
10°	4950	4985	4966
15°	4913	4964	4971
20°	4870	4929	4946
25°	4791	4876	4910
30°	4716	4836	4890
35°	4640	4790	4873
40°	4563	4748	4861
45°	4478	4704	4856
50°	4379	4652	4844
55°	4280	4602	4843
60°	4121	4534	4872
65°	3928	4446	4875
70°	3665	4322	4890
75°	3261	4164	4974
80°	2678	3991	5161
85°	1768	3747	4663

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5285 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	3.2
10°-20°	431.1	9.3
20°-30°	649.8	14.0
30°-40°	782.6	16.8
40°-50°	817.6	17.6
50°-60°	751.1	16.2
60°-70°	591.5	12.7
70°-80°	362.6	7.8
80°-90°	110.0	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°	1231.6	26.5
0°-40°	2014.2	43.3
0°-60°	3582.9	77.1
0°-90°	4647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4647.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1592	1592	1592	1592	1592	
5°	1580	1584	1589	1587	1586	150
15°	1516	1522	1531	1537	1533	428
25°	1387	1396	1411	1426	1421	639
35°	1214	1229	1253	1276	1275	759
45°	1011	1033	1062	1092	1097	780
55°	784	806	843	879	887	699
65°	530	558	600	640	658	524
75°	270	301	344	386	411	286
85°	49	73	104	116	130	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1592.3	1592.3	1592.3	1592.3	1592.3
2.5°	1586.4	1590.4	1595.3	1587.4	1583.5
5°	1580.5	1583.5	1589.4	1587.4	1585.5
7.5°	1569.7	1571.7	1579.6	1579.6	1577.6
10°	1556.9	1560.9	1567.8	1566.8	1561.9
12.5°	1540.2	1543.2	1551.0	1551.0	1548.1
15°	1515.6	1521.5	1531.4	1537.3	1533.3
17.5°	1490.1	1496.0	1508.7	1514.6	1512.7
20°	1461.5	1466.4	1479.2	1488.1	1484.2
22.5°	1426.1	1432.0	1446.8	1456.6	1452.7
25°	1386.8	1395.6	1411.4	1426.1	1421.2
27.5°	1347.4	1357.3	1376.9	1391.7	1389.7
30°	1304.2	1317.0	1337.6	1356.3	1352.4
32.5°	1259.9	1274.7	1296.3	1316.0	1315.0
35°	1213.7	1229.4	1253.0	1275.6	1274.7
37.5°	1164.5	1183.2	1207.8	1232.4	1233.4
40°	1116.3	1134.0	1161.6	1188.1	1189.1
42.5°	1065.2	1083.9	1113.4	1140.9	1141.9
45°	1011.1	1032.7	1062.2	1091.7	1096.6
47.5°	956.0	978.6	1009.1	1040.6	1046.5
50°	898.9	922.6	955.0	988.5	994.4
52.5°	840.9	865.5	898.9	932.4	941.2
55°	783.9	806.5	842.9	879.3	887.1
57.5°	723.9	744.5	783.9	822.2	832.1
60°	658.0	683.6	723.9	762.2	778.0
62.5°	594.1	621.6	662.9	701.3	719.0
65°	530.1	557.7	600.0	640.3	658.0
67.5°	465.2	493.7	539.0	577.3	597.0
70°	400.3	428.8	472.1	513.4	534.1
72.5°	335.4	365.9	408.2	450.5	471.1
75°	269.5	301.0	344.2	385.5	411.1
77.5°	207.5	238.0	281.3	323.6	345.2
80°	148.5	179.0	221.3	263.6	286.2
82.5°	94.4	122.9	164.3	199.7	220.3
85°	49.2	72.8	104.3	116.1	129.8
87.5°	14.8	28.5	40.3	45.2	56.1
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	17.10	18.76	17.46	19.07	19.39	17.84	19.50	18.21	19.82	20.13
	3H	18.86	20.37	19.23	20.69	21.05	19.94	21.44	20.31	21.77	22.13
	4H	19.48	20.91	19.88	21.25	21.63	20.82	22.24	21.22	22.59	22.97
	6H	19.89	21.22	20.31	21.58	21.97	21.59	22.91	22.00	23.27	23.66
	8H	20.00	21.26	20.42	21.65	22.05	21.90	23.16	22.32	23.55	23.95
	12H	20.05	21.26	20.48	21.64	22.07	22.11	23.32	22.54	23.70	24.13
4H	2H	17.87	19.29	18.26	19.64	20.01	18.45	19.87	18.84	20.22	20.59
	3H	19.86	21.06	20.27	21.45	21.85	20.77	21.97	21.18	22.37	22.77
	4H	20.61	21.70	21.04	22.11	22.55	21.81	22.89	22.24	23.31	23.74
	6H	21.15	22.10	21.60	22.54	23.00	22.74	23.69	23.19	24.13	24.58
	8H	21.30	22.19	21.76	22.63	23.09	23.12	24.02	23.58	24.46	24.92
	12H	21.38	22.19	21.86	22.66	23.13	23.40	24.20	23.88	24.68	25.14
8H	4H	21.07	21.96	21.52	22.40	22.86	22.11	23.00	22.57	23.44	23.91
	6H	21.74	22.49	22.23	22.97	23.45	23.19	23.94	23.68	24.42	24.90
	8H	21.96	22.63	22.47	23.14	23.62	23.68	24.35	24.19	24.85	25.34
	12H	22.11	22.70	22.62	23.19	23.75	24.06	24.65	24.56	25.14	25.70
12H	4H	21.15	21.95	21.63	22.43	22.89	22.14	22.94	22.61	23.41	23.88
	6H	21.87	22.54	22.38	23.05	23.53	23.24	23.92	23.75	24.42	24.90
	8H	22.16	22.75	22.67	23.24	23.80	23.80	24.39	24.30	24.88	25.44