

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: P1587716

Luminaire Tested: 22CZSP-SB-47-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587716
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-47-L840-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 4500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

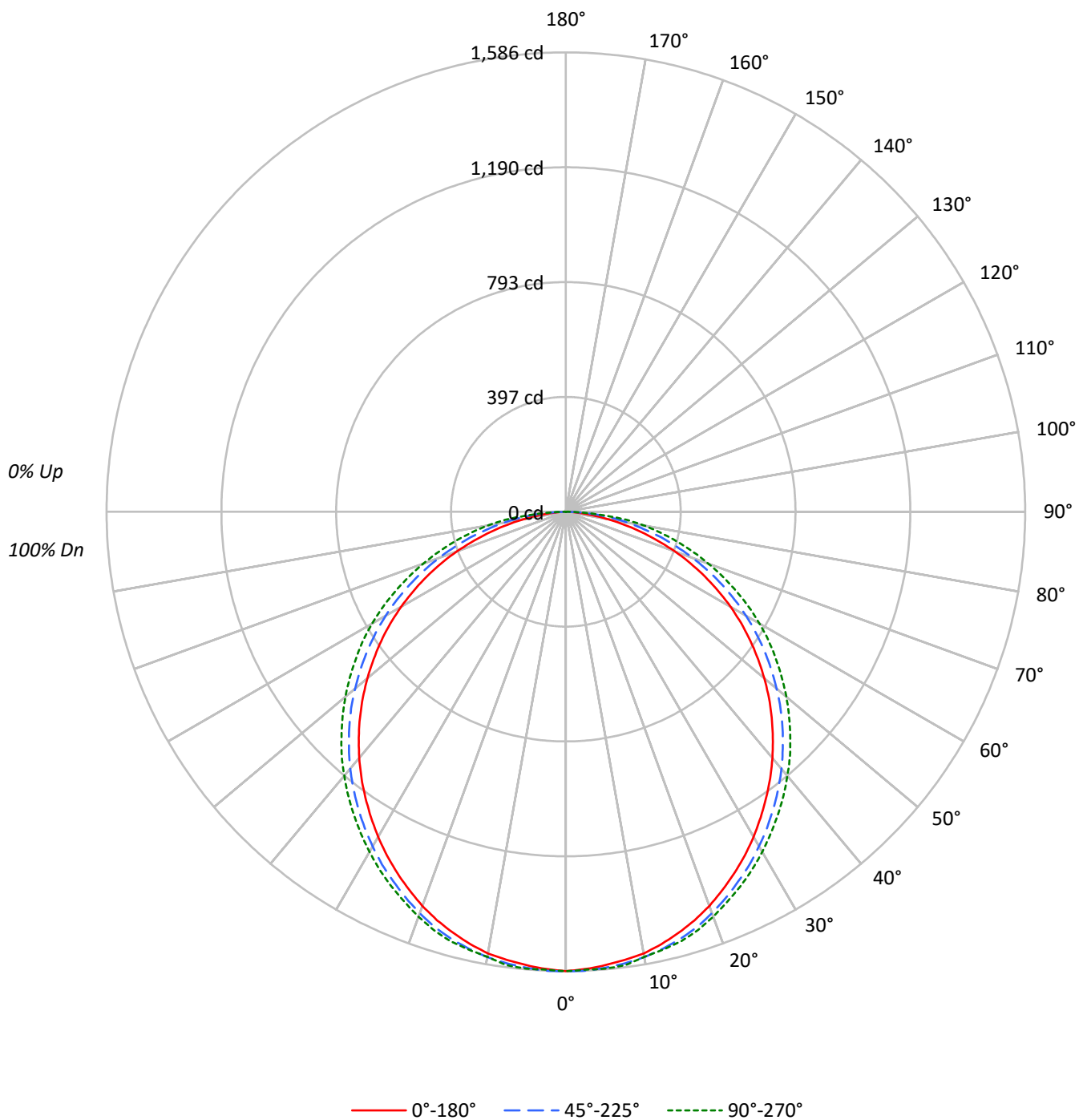
Lumens per Lamp: N/A
Luminaire Lumens: 4614.0 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	94	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	45	39		50
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4967	4967	4967
5°	4939	4967	4976
10°	4923	4964	4961
15°	4878	4949	4978
20°	4826	4915	4958
25°	4757	4866	4928
30°	4687	4823	4903
35°	4610	4777	4880
40°	4536	4735	4865
45°	4453	4686	4853
50°	4357	4627	4840
55°	4248	4568	4834
60°	4115	4500	4836
65°	3927	4406	4809
70°	3671	4271	4798
75°	3255	4107	4815
80°	2649	3902	4957
85°	1710	3600	4279

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5024 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.1	3.3
10°-20°	429.8	9.3
20°-30°	648.1	14.0
30°-40°	779.8	16.9
40°-50°	813.4	17.6
50°-60°	745.6	16.2
60°-70°	585.5	12.7
70°-80°	356.3	7.7
80°-90°	105.4	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°	1228.0	26.6
0°-40°	2007.8	43.5
0°-60°	3566.8	77.3
0°-90°	4614.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4614.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1586	1586	1586	1586	1586	
5°	1571	1581	1580	1578	1583	149
15°	1505	1520	1527	1529	1536	425
25°	1377	1396	1408	1417	1426	634
35°	1206	1225	1250	1268	1276	755
45°	1006	1026	1058	1083	1096	775
55°	778	798	837	870	885	695
65°	530	550	595	634	649	524
75°	269	294	340	380	398	285
85°	48	68	100	112	119	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1586.1	1586.1	1586.1	1586.1	1586.1
2.5°	1580.2	1588.1	1586.1	1579.2	1582.2
5°	1571.2	1581.2	1580.2	1578.2	1583.2
7.5°	1560.3	1571.2	1572.2	1572.2	1578.2
10°	1548.4	1559.3	1561.3	1558.3	1560.3
12.5°	1528.6	1541.5	1545.4	1545.4	1548.4
15°	1504.7	1519.6	1526.6	1528.6	1535.5
17.5°	1478.9	1494.8	1503.7	1508.7	1514.7
20°	1448.2	1465.0	1475.0	1480.9	1487.9
22.5°	1413.4	1432.3	1443.2	1449.2	1457.1
25°	1376.7	1395.6	1408.5	1417.4	1426.3
27.5°	1338.0	1355.9	1373.7	1384.6	1392.6
30°	1296.3	1315.2	1334.0	1347.9	1355.9
32.5°	1251.6	1271.5	1293.3	1308.2	1317.1
35°	1206.0	1224.8	1249.7	1267.5	1276.5
37.5°	1159.3	1179.2	1205.0	1223.8	1234.8
40°	1109.7	1130.5	1158.3	1179.2	1190.1
42.5°	1058.1	1077.9	1108.7	1132.5	1145.4
45°	1005.5	1026.3	1058.1	1082.9	1095.8
47.5°	950.9	970.7	1005.5	1034.3	1045.2
50°	894.3	913.2	949.9	980.7	993.6
52.5°	836.7	856.6	893.3	926.1	940.0
55°	778.2	798.0	836.7	870.5	885.4
57.5°	718.6	738.5	778.2	812.9	830.8
60°	657.1	676.9	718.6	754.4	772.2
62.5°	593.6	614.4	657.1	693.8	712.7
65°	530.0	549.9	594.6	634.3	649.1
67.5°	466.5	486.4	530.0	569.7	587.6
70°	401.0	423.8	466.5	508.2	524.1
72.5°	332.5	358.3	401.0	444.7	460.6
75°	269.0	293.8	339.5	380.2	398.0
77.5°	206.5	233.3	275.9	317.6	335.5
80°	146.9	172.7	216.4	256.1	274.9
82.5°	93.3	116.1	159.8	195.5	209.4
85°	47.6	67.5	100.2	112.2	119.1
87.5°	13.9	23.8	35.7	44.7	49.6
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	17.07	18.73	17.43	19.04	19.36	17.80	19.46	18.17	19.78	20.09
	3H	18.84	20.34	19.21	20.67	21.03	19.88	21.39	20.26	21.71	22.07
	4H	19.46	20.88	19.85	21.22	21.60	20.75	22.17	21.15	22.51	22.89
	6H	19.86	21.18	20.28	21.55	21.94	21.49	22.81	21.90	23.17	23.56
	8H	19.97	21.23	20.39	21.62	22.01	21.79	23.05	22.21	23.44	23.83
	12H	20.02	21.22	20.45	21.61	22.03	21.98	23.19	22.41	23.57	24.00
4H	2H	17.84	19.26	18.23	19.60	19.98	18.41	19.83	18.81	20.17	20.55
	3H	19.83	21.02	20.24	21.42	21.82	20.72	21.92	21.13	22.31	22.71
	4H	20.57	21.65	21.00	22.07	22.50	21.74	22.82	22.17	23.24	23.67
	6H	21.10	22.05	21.55	22.49	22.94	22.64	23.59	23.10	24.03	24.49
	8H	21.24	22.13	21.70	22.57	23.04	23.01	23.90	23.47	24.34	24.81
	12H	21.32	22.12	21.80	22.60	23.06	23.27	24.07	23.74	24.54	25.01
8H	4H	21.02	21.91	21.47	22.35	22.81	22.04	22.93	22.50	23.37	23.83
	6H	21.68	22.42	22.17	22.91	23.38	23.09	23.84	23.59	24.32	24.80
	8H	21.89	22.55	22.40	23.06	23.54	23.57	24.23	24.07	24.74	25.22
	12H	22.02	22.61	22.53	23.10	23.66	23.92	24.51	24.42	25.00	25.56
12H	4H	21.10	21.90	21.58	22.37	22.84	22.06	22.86	22.54	23.34	23.81
	6H	21.80	22.47	22.31	22.97	23.46	23.15	23.81	23.65	24.32	24.80
	8H	22.08	22.67	22.59	23.16	23.72	23.68	24.27	24.19	24.76	25.32