

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: P1587719

Luminaire Tested: 22CZSP-SB-47-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587719
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-L845
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 4500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

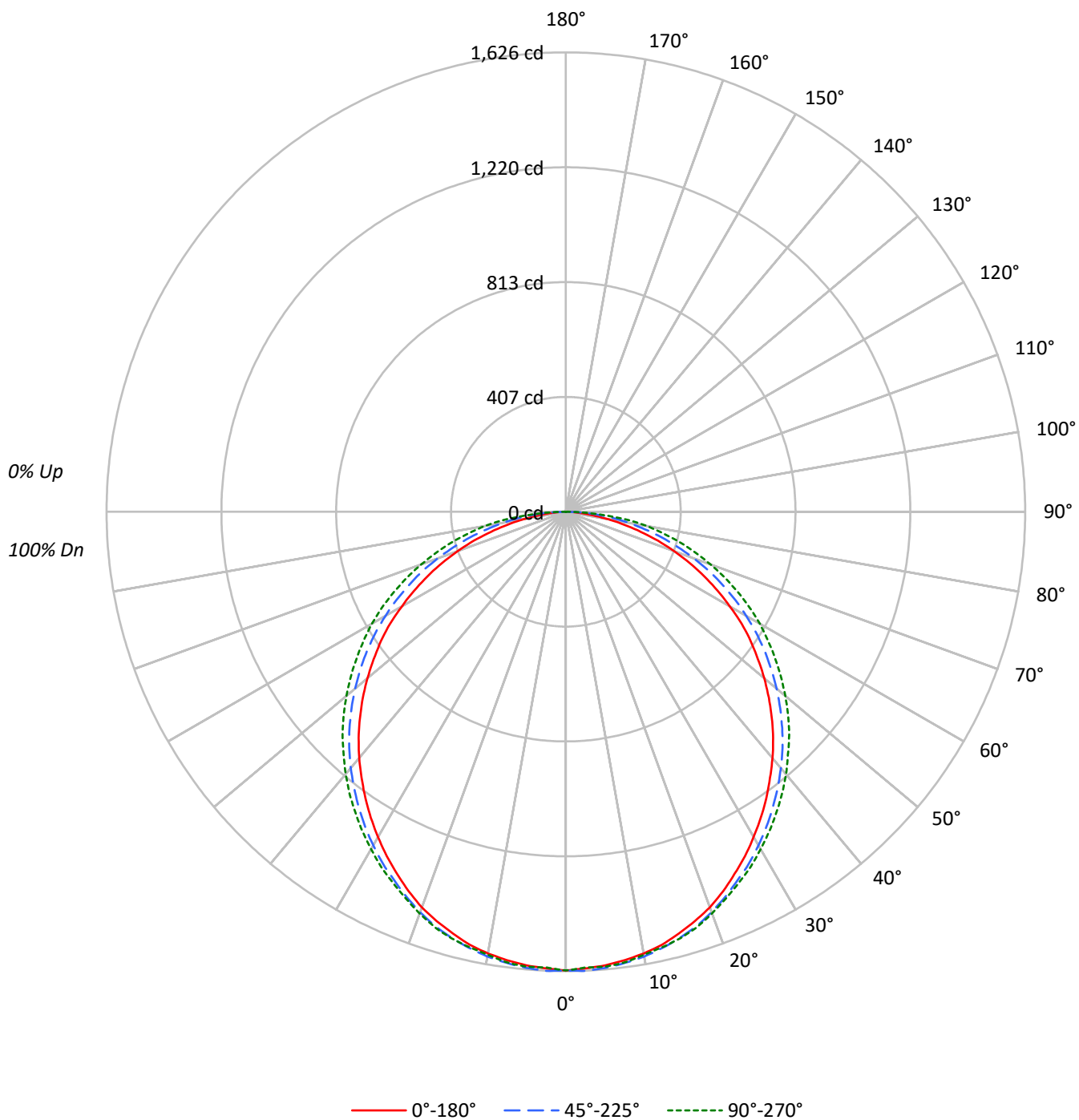
Lumens per Lamp: N/A
Luminaire Lumens: 4738.0 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	5084	5084	5084
5°	5065	5094	5081
10°	5047	5083	5063
15°	5010	5061	5068
20°	4966	5026	5042
25°	4885	4972	5006
30°	4808	4931	4985
35°	4730	4884	4968
40°	4653	4841	4956
45°	4565	4796	4951
50°	4465	4743	4939
55°	4363	4692	4938
60°	4202	4622	4968
65°	4005	4532	4971
70°	3736	4406	4985
75°	3325	4247	5072
80°	2730	4068	5262
85°	1800	3819	4757

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5388 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	3.2
10°-20°	439.6	9.3
20°-30°	662.6	14.0
30°-40°	797.9	16.8
40°-50°	833.6	17.6
50°-60°	765.8	16.2
60°-70°	603.1	12.7
70°-80°	369.8	7.8
80°-90°	112.1	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°	1255.7	26.5
0°-40°	2053.6	43.3
0°-60°	3653.1	77.1
0°-90°	4738.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4738.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1624	1624	1624	1624	1624	
5°	1612	1614	1620	1618	1616	153
15°	1545	1551	1561	1567	1563	436
25°	1414	1423	1439	1454	1449	652
35°	1237	1254	1278	1301	1300	774
45°	1031	1053	1083	1113	1118	795
55°	799	822	859	896	904	713
65°	540	569	612	653	671	534
75°	275	307	351	393	419	292
85°	50	74	106	118	132	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1623.5	1623.5	1623.5	1623.5	1623.5
2.5°	1617.5	1621.5	1626.5	1618.5	1614.5
5°	1611.5	1614.5	1620.5	1618.5	1616.5
7.5°	1600.5	1602.5	1610.5	1610.5	1608.5
10°	1587.4	1591.4	1598.5	1597.5	1592.4
12.5°	1570.4	1573.4	1581.4	1581.4	1578.4
15°	1545.3	1551.3	1561.3	1567.4	1563.4
17.5°	1519.2	1525.2	1538.3	1544.3	1542.3
20°	1490.2	1495.2	1508.2	1517.2	1513.2
22.5°	1454.1	1460.1	1475.1	1485.1	1481.1
25°	1413.9	1423.0	1439.0	1454.1	1449.0
27.5°	1373.8	1383.9	1403.9	1419.0	1416.9
30°	1329.7	1342.7	1363.8	1382.9	1378.8
32.5°	1284.6	1299.6	1321.7	1341.7	1340.7
35°	1237.4	1253.5	1277.6	1300.6	1299.6
37.5°	1187.3	1206.4	1231.4	1256.5	1257.5
40°	1138.2	1156.2	1184.3	1211.4	1212.4
42.5°	1086.0	1105.1	1135.2	1163.2	1164.2
45°	1030.9	1052.9	1083.0	1113.1	1118.1
47.5°	974.7	997.8	1028.9	1061.0	1067.0
50°	916.6	940.6	973.7	1007.8	1013.8
52.5°	857.4	882.5	916.6	950.6	959.7
55°	799.2	822.3	859.4	896.5	904.5
57.5°	738.1	759.1	799.2	838.3	848.4
60°	670.9	696.9	738.1	777.2	793.2
62.5°	605.7	633.8	675.9	715.0	733.0
65°	540.5	568.6	611.7	652.8	670.9
67.5°	474.3	503.4	549.5	588.6	608.7
70°	408.1	437.2	481.3	523.5	544.5
72.5°	342.0	373.0	416.2	459.3	480.3
75°	274.8	306.9	351.0	393.1	419.2
77.5°	211.6	242.7	286.8	329.9	352.0
80°	151.4	182.5	225.6	268.7	291.8
82.5°	96.3	125.3	167.5	203.6	224.6
85°	50.1	74.2	106.3	118.3	132.4
87.5°	15.0	29.1	41.1	46.1	57.2
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	17.16	18.83	17.53	19.14	19.45	17.91	19.57	18.27	19.89	20.20
	3H	18.93	20.43	19.30	20.76	21.12	20.00	21.51	20.38	21.84	22.20
	4H	19.55	20.97	19.95	21.32	21.69	20.89	22.31	21.29	22.66	23.03
	6H	19.96	21.28	20.37	21.65	22.04	21.66	22.98	22.07	23.34	23.73
	8H	20.07	21.33	20.49	21.72	22.12	21.97	23.23	22.39	23.62	24.02
	12H	20.12	21.33	20.55	21.71	22.14	22.18	23.39	22.61	23.77	24.20
4H	2H	17.93	19.36	18.33	19.70	20.08	18.51	19.94	18.91	20.28	20.66
	3H	19.93	21.12	20.34	21.52	21.92	20.84	22.04	21.25	22.44	22.84
	4H	20.68	21.77	21.11	22.18	22.61	21.88	22.96	22.31	23.37	23.81
	6H	21.22	22.17	21.67	22.61	23.06	22.81	23.76	23.26	24.20	24.65
	8H	21.36	22.26	21.82	22.70	23.16	23.19	24.08	23.65	24.52	24.99
	12H	21.45	22.25	21.93	22.73	23.20	23.47	24.27	23.94	24.74	25.21
8H	4H	21.13	22.02	21.59	22.47	22.93	22.18	23.07	22.63	23.51	23.97
	6H	21.81	22.55	22.30	23.04	23.52	23.26	24.00	23.75	24.49	24.96
	8H	22.03	22.70	22.54	23.20	23.69	23.75	24.42	24.25	24.92	25.41
	12H	22.18	22.77	22.68	23.26	23.82	24.12	24.71	24.63	25.20	25.76
12H	4H	21.22	22.02	21.69	22.49	22.96	22.20	23.01	22.68	23.48	23.95
	6H	21.94	22.61	22.44	23.11	23.60	23.31	23.98	23.82	24.49	24.97
	8H	22.23	22.82	22.73	23.31	23.87	23.87	24.46	24.37	24.95	25.51