

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: P1587747

Luminaire Tested: 22CZSP-SB-49HE-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587747
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-49HE-L940
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 4500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

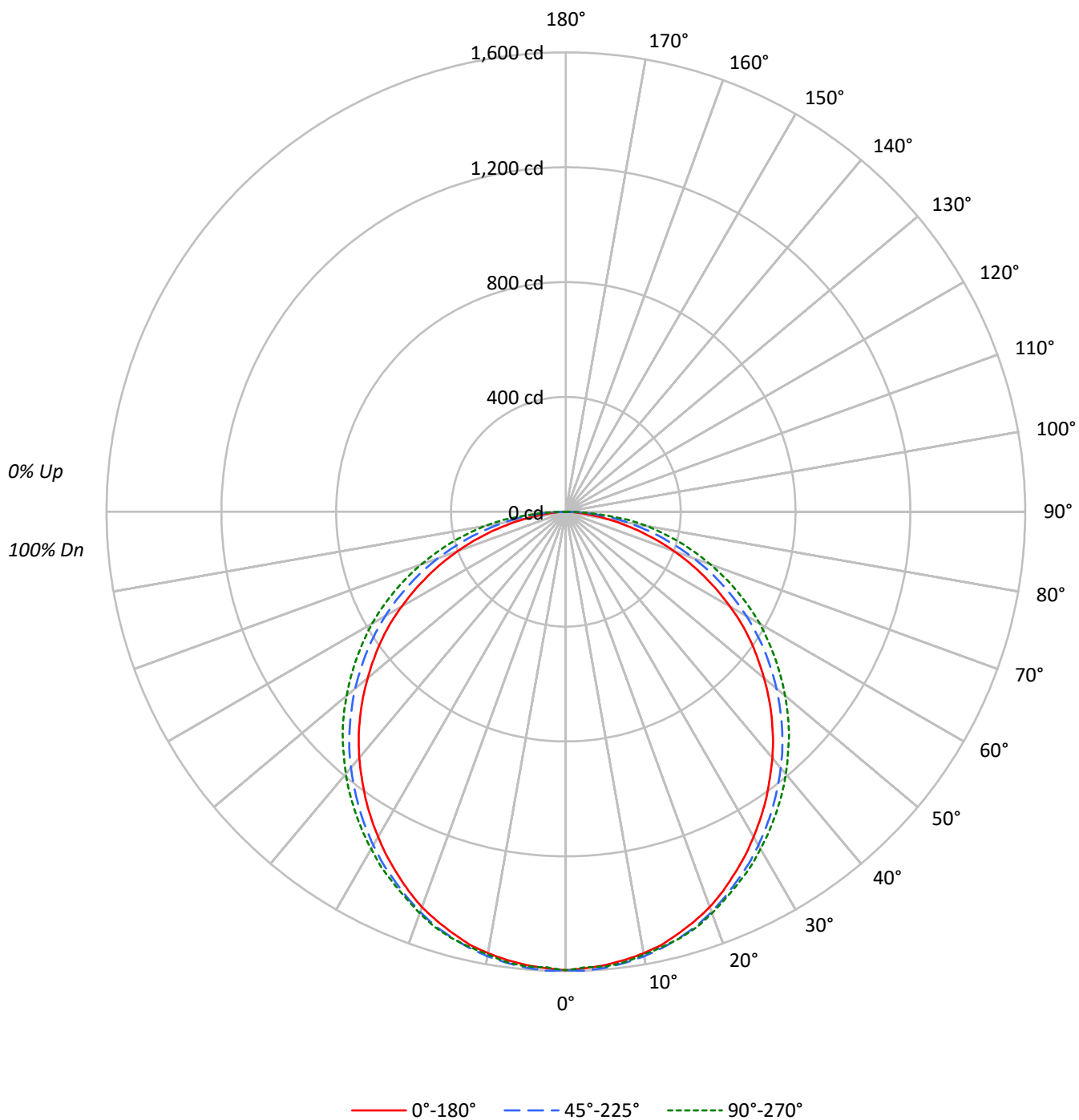
Lumens per Lamp: N/A
Luminaire Lumens: 4660.0 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 32.2
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	93	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	63	87	77	69	63	74	67	62		71	65	61		69
4	82	69	60	54	79	68	60	53	66	58	52		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	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5000	5000	5000
5°	4982	5010	4998
10°	4964	4999	4980
15°	4927	4978	4985
20°	4884	4943	4959
25°	4805	4890	4924
30°	4729	4850	4903
35°	4653	4803	4886
40°	4576	4761	4874
45°	4490	4717	4870
50°	4392	4665	4857
55°	4292	4614	4857
60°	4132	4546	4886
65°	3939	4457	4889
70°	3675	4334	4904
75°	3269	4176	4988
80°	2685	4001	5175
85°	1771	3754	4678

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5299 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	3.2
10°-20°	432.3	9.3
20°-30°	651.7	14.0
30°-40°	784.8	16.8
40°-50°	819.9	17.6
50°-60°	753.2	16.2
60°-70°	593.1	12.7
70°-80°	363.7	7.8
80°-90°	110.3	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°	1235.1	26.5
0°-40°	2019.8	43.3
0°-60°	3592.9	77.1
0°-90°	4660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1597	1597	1597	1597	1597	
5°	1585	1588	1594	1592	1590	151
15°	1520	1526	1536	1542	1538	429
25°	1391	1400	1415	1430	1425	641
35°	1217	1233	1256	1279	1278	761
45°	1014	1036	1065	1095	1100	782
55°	786	809	845	882	890	701
65°	532	559	602	642	660	526
75°	270	302	345	387	412	287
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°	1596.8	1596.8	1596.8	1596.8	1596.8
2.5°	1590.9	1594.8	1599.8	1591.9	1587.9
5°	1585.0	1587.9	1593.8	1591.9	1589.9
7.5°	1574.1	1576.1	1584.0	1584.0	1582.0
10°	1561.3	1565.2	1572.1	1571.2	1566.2
12.5°	1544.5	1547.5	1555.4	1555.4	1552.4
15°	1519.9	1525.8	1535.6	1541.6	1537.6
17.5°	1494.2	1500.1	1513.0	1518.9	1516.9
20°	1465.6	1470.6	1483.4	1492.2	1488.3
22.5°	1430.1	1436.0	1450.8	1460.7	1456.7
25°	1390.7	1399.5	1415.3	1430.1	1425.2
27.5°	1351.2	1361.1	1380.8	1395.6	1393.6
30°	1307.8	1320.6	1341.3	1360.1	1356.1
32.5°	1263.4	1278.2	1299.9	1319.6	1318.7
35°	1217.1	1232.9	1256.5	1279.2	1278.2
37.5°	1167.8	1186.5	1211.2	1235.8	1236.8
40°	1119.4	1137.2	1164.8	1191.4	1192.4
42.5°	1068.1	1086.9	1116.5	1144.1	1145.1
45°	1013.9	1035.6	1065.2	1094.8	1099.7
47.5°	958.7	981.4	1011.9	1043.5	1049.4
50°	901.5	925.1	957.7	991.2	997.1
52.5°	843.3	867.9	901.5	935.0	943.9
55°	786.1	808.8	845.2	881.7	889.6
57.5°	725.9	746.6	786.1	824.5	834.4
60°	659.8	685.5	725.9	764.4	780.2
62.5°	595.7	623.3	664.8	703.2	721.0
65°	531.6	559.2	601.6	642.1	659.8
67.5°	466.5	495.1	540.5	578.9	598.7
70°	401.4	430.0	473.4	514.8	535.6
72.5°	336.3	366.9	409.3	451.7	472.4
75°	270.2	301.8	345.2	386.6	412.3
77.5°	208.1	238.7	282.1	324.5	346.2
80°	148.9	179.5	221.9	264.3	287.0
82.5°	94.7	123.3	164.7	200.2	220.9
85°	49.3	73.0	104.5	116.4	130.2
87.5°	14.8	28.6	40.4	45.4	56.2
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	17.11	18.77	17.47	19.08	19.40	17.85	19.51	18.22	19.83	20.14
	3H	18.87	20.38	19.24	20.70	21.06	19.95	21.45	20.32	21.78	22.14
	4H	19.49	20.91	19.89	21.26	21.64	20.83	22.25	21.23	22.60	22.98
	6H	19.90	21.23	20.31	21.59	21.98	21.60	22.92	22.01	23.28	23.67
	8H	20.01	21.27	20.43	21.66	22.06	21.91	23.17	22.33	23.56	23.96
	12H	20.06	21.27	20.49	21.65	22.08	22.12	23.33	22.55	23.71	24.14
4H	2H	17.88	19.30	18.27	19.65	20.02	18.45	19.88	18.85	20.22	20.60
	3H	19.87	21.07	20.28	21.46	21.86	20.78	21.98	21.19	22.38	22.78
	4H	20.62	21.71	21.05	22.12	22.56	21.82	22.90	22.25	23.32	23.75
	6H	21.16	22.11	21.61	22.55	23.00	22.75	23.70	23.20	24.14	24.59
	8H	21.31	22.20	21.77	22.64	23.10	23.13	24.02	23.59	24.47	24.93
	12H	21.39	22.20	21.87	22.67	23.14	23.41	24.21	23.89	24.69	25.15
8H	4H	21.07	21.97	21.53	22.41	22.87	22.12	23.01	22.58	23.45	23.92
	6H	21.75	22.50	22.24	22.98	23.46	23.20	23.95	23.69	24.43	24.91
	8H	21.97	22.64	22.48	23.15	23.63	23.69	24.36	24.20	24.86	25.35
	12H	22.12	22.71	22.63	23.20	23.76	24.06	24.66	24.57	25.15	25.70
12H	4H	21.16	21.96	21.64	22.44	22.90	22.15	22.95	22.62	23.42	23.89
	6H	21.88	22.55	22.39	23.05	23.54	23.25	23.92	23.76	24.43	24.91
	8H	22.17	22.76	22.68	23.25	23.81	23.81	24.40	24.31	24.89	25.45