

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: P1587746

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587746
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-49HE-L940-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 4500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

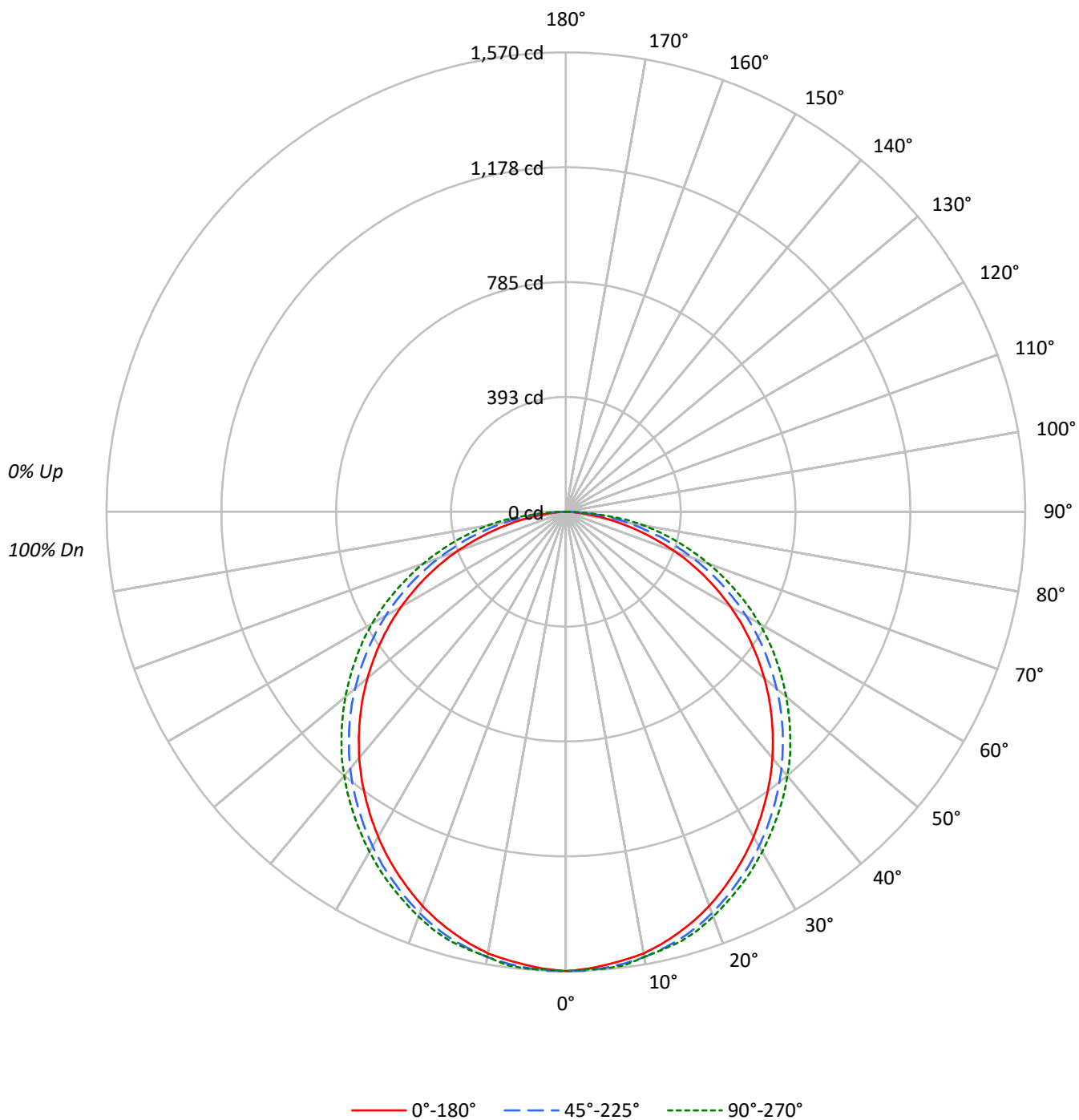
Lumens per Lamp: N/A
Luminaire Lumens: 4567.0 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	94	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	69		
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58		
4	82	70	61	54	79	68	60	53	66	58	53	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	45	39	50	44	39	37		
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33		
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29		
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26		
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4916	4916	4916
5°	4888	4916	4926
10°	4873	4914	4911
15°	4828	4898	4927
20°	4777	4865	4907
25°	4708	4817	4878
30°	4639	4774	4852
35°	4563	4728	4830
40°	4490	4686	4815
45°	4407	4638	4803
50°	4312	4580	4791
55°	4205	4521	4785
60°	4073	4455	4787
65°	3887	4360	4761
70°	3634	4228	4749
75°	3221	4065	4767
80°	2622	3863	4907
85°	1696	3564	4236

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4973 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	3.3
10°-20°	425.5	9.3
20°-30°	641.5	14.0
30°-40°	771.9	16.9
40°-50°	805.1	17.6
50°-60°	738.0	16.2
60°-70°	579.5	12.7
70°-80°	352.7	7.7
80°-90°	104.3	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°	1215.5	26.6
0°-40°	1987.4	43.5
0°-60°	3530.5	77.3
0°-90°	4567.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4567.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1570	1570	1570	1570	1570	
5°	1555	1565	1564	1562	1567	148
15°	1489	1504	1511	1513	1520	420
25°	1363	1381	1394	1403	1412	628
35°	1194	1212	1237	1255	1263	747
45°	995	1016	1047	1072	1085	767
55°	770	790	828	862	876	688
65°	525	544	588	628	642	519
75°	266	291	336	376	394	282
85°	47	67	99	111	118	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1570.0	1570.0	1570.0	1570.0	1570.0
2.5°	1564.1	1571.9	1570.0	1563.1	1566.0
5°	1555.2	1565.1	1564.1	1562.1	1567.0
7.5°	1544.4	1555.2	1556.2	1556.2	1562.1
10°	1532.6	1543.4	1545.4	1542.5	1544.4
12.5°	1513.0	1525.8	1529.7	1529.7	1532.6
15°	1489.4	1504.2	1511.0	1513.0	1519.9
17.5°	1463.9	1479.6	1488.4	1493.3	1499.2
20°	1433.4	1450.1	1459.9	1465.8	1472.7
22.5°	1399.0	1417.7	1428.5	1434.4	1442.3
25°	1362.7	1381.3	1394.1	1403.0	1411.8
27.5°	1324.4	1342.0	1359.7	1370.5	1378.4
30°	1283.1	1301.8	1320.4	1334.2	1342.0
32.5°	1238.9	1258.5	1280.1	1294.9	1303.7
35°	1193.7	1212.4	1236.9	1254.6	1263.4
37.5°	1147.5	1167.2	1192.7	1211.4	1222.2
40°	1098.4	1119.0	1146.5	1167.2	1178.0
42.5°	1047.3	1067.0	1097.4	1121.0	1133.8
45°	995.2	1015.9	1047.3	1071.9	1084.6
47.5°	941.2	960.8	995.2	1023.7	1034.5
50°	885.2	903.9	940.2	970.7	983.4
52.5°	828.2	847.9	884.2	916.6	930.4
55°	770.3	789.9	828.2	861.6	876.4
57.5°	711.3	731.0	770.3	804.6	822.3
60°	650.4	670.0	711.3	746.7	764.4
62.5°	587.5	608.1	650.4	686.7	705.4
65°	524.6	544.3	588.5	627.8	642.5
67.5°	461.8	481.4	524.6	563.9	581.6
70°	396.9	419.5	461.8	503.0	518.7
72.5°	329.1	354.7	396.9	440.1	455.9
75°	266.2	290.8	336.0	376.3	394.0
77.5°	204.4	230.9	273.1	314.4	332.1
80°	145.4	170.9	214.2	253.5	272.1
82.5°	92.4	114.9	158.2	193.5	207.3
85°	47.2	66.8	99.2	111.0	117.9
87.5°	13.8	23.6	35.4	44.2	49.1
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	17.03	18.69	17.40	19.01	19.32	17.77	19.43	18.13	19.74	20.06
	3H	18.80	20.31	19.18	20.63	20.99	19.85	21.35	20.22	21.68	22.04
	4H	19.42	20.84	19.82	21.19	21.56	20.71	22.13	21.11	22.48	22.85
	6H	19.83	21.15	20.24	21.51	21.90	21.46	22.77	21.87	23.14	23.53
	8H	19.93	21.19	20.36	21.58	21.98	21.75	23.01	22.18	23.40	23.80
	12H	19.98	21.19	20.41	21.57	22.00	21.95	23.15	22.37	23.53	23.96
4H	2H	17.80	19.22	18.20	19.57	19.94	18.37	19.79	18.77	20.14	20.51
	3H	19.79	20.99	20.20	21.38	21.78	20.68	21.88	21.09	22.28	22.68
	4H	20.53	21.62	20.97	22.03	22.47	21.70	22.79	22.13	23.20	23.63
	6H	21.06	22.01	21.52	22.45	22.91	22.61	23.56	23.06	24.00	24.45
	8H	21.21	22.09	21.66	22.54	23.00	22.98	23.87	23.43	24.31	24.77
	12H	21.29	22.09	21.76	22.56	23.03	23.23	24.03	23.71	24.51	24.97
8H	4H	20.98	21.87	21.44	22.31	22.78	22.00	22.89	22.46	23.33	23.80
	6H	21.64	22.39	22.14	22.87	23.35	23.06	23.80	23.55	24.29	24.76
	8H	21.85	22.52	22.36	23.02	23.51	23.53	24.20	24.04	24.70	25.19
	12H	21.99	22.58	22.49	23.07	23.63	23.88	24.47	24.39	24.96	25.52
12H	4H	21.06	21.86	21.54	22.34	22.80	22.03	22.83	22.51	23.30	23.77
	6H	21.77	22.43	22.27	22.94	23.42	23.11	23.78	23.62	24.28	24.77
	8H	22.04	22.63	22.55	23.12	23.68	23.65	24.24	24.15	24.73	25.29