

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: P1586471

Luminaire Tested: 22CZSP-49HE-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-668-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-49HE-L950
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4500 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

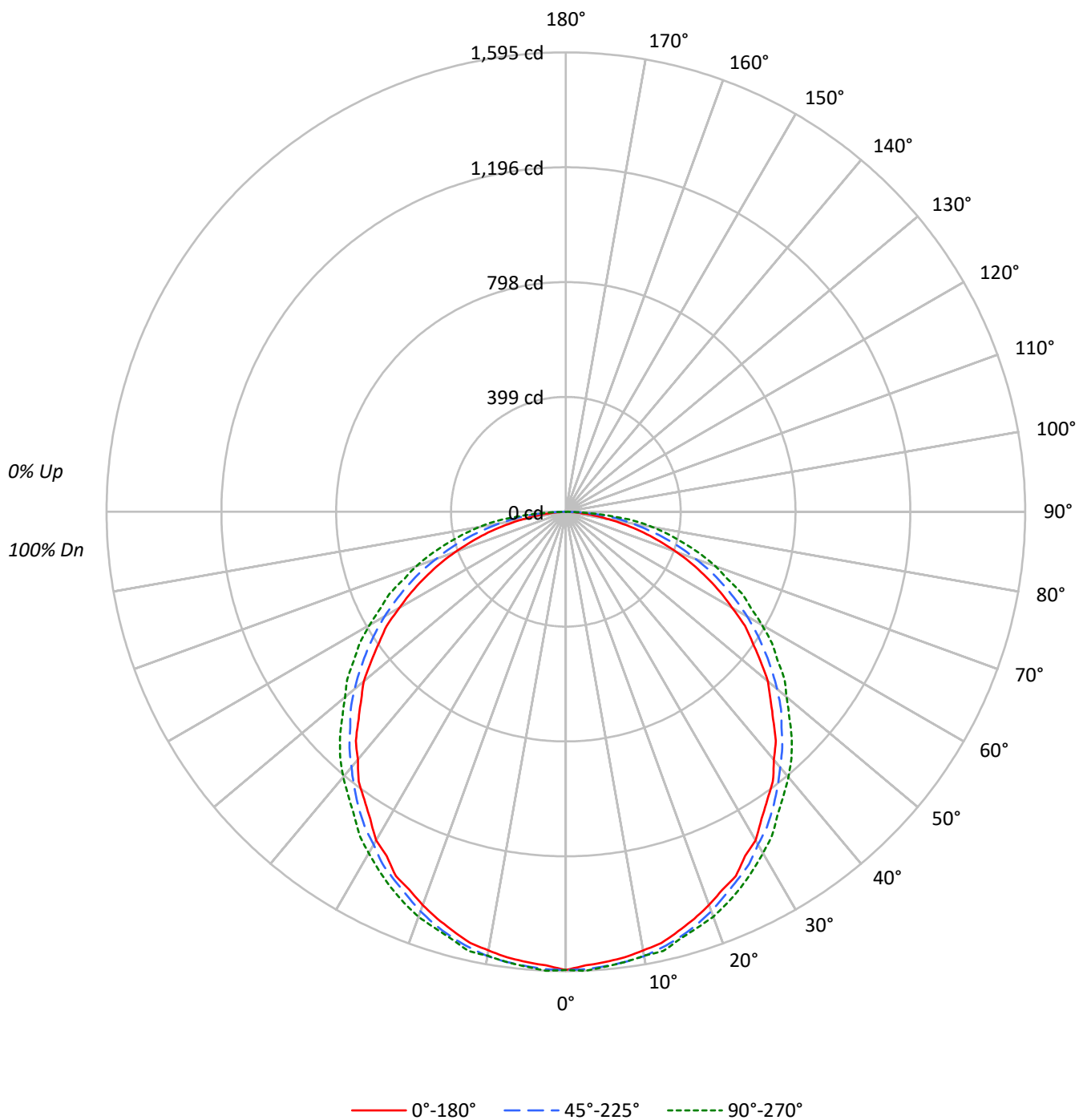
Lumens per Lamp: N/A
Luminaire Lumens: 4686.0 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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			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	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45		56	50	44		55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39		51	44	39		49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35		46	40	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4982	4982	4982
5°	4933	4978	4983
10°	4917	4981	4976
15°	4888	4958	4976
20°	4843	4919	4986
25°	4823	4873	4972
30°	4763	4825	4949
35°	4662	4794	4904
40°	4593	4734	4915
45°	4506	4691	4913
50°	4462	4664	4873
55°	4319	4601	4898
60°	4174	4551	4928
65°	3993	4481	5012
70°	3753	4396	5065
75°	3382	4318	5167
80°	2766	4239	5505
85°	1804	4222	5148

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5777 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	3.2
10°-20°	430.6	9.2
20°-30°	650.8	13.9
30°-40°	784.9	16.8
40°-50°	820.6	17.5
50°-60°	756.7	16.1
60°-70°	599.6	12.8
70°-80°	374.9	8.0
80°-90°	117.6	2.5
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°	1231.8	26.3
0°-40°	2016.7	43.0
0°-60°	3593.9	76.7
0°-90°	4686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4686.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1591	1591	1591	1591	1591	
5°	1569	1577	1584	1590	1585	149
15°	1508	1515	1529	1539	1535	425
25°	1396	1392	1410	1430	1439	640
35°	1220	1234	1254	1276	1283	765
45°	1018	1032	1059	1086	1109	788
55°	791	810	843	889	897	709
65°	539	562	605	652	676	534
75°	280	302	357	407	427	295
85°	50	72	118	138	143	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1590.9	1590.9	1590.9	1590.9	1590.9
2.5°	1576.6	1583.8	1589.5	1588.1	1595.2
5°	1569.4	1576.6	1583.8	1589.5	1585.2
7.5°	1560.8	1568.0	1576.6	1585.2	1576.6
10°	1546.5	1550.8	1566.6	1568.0	1565.1
12.5°	1533.6	1537.9	1549.4	1559.4	1562.3
15°	1507.8	1515.0	1529.3	1539.3	1535.0
17.5°	1482.0	1492.0	1504.9	1515.0	1515.0
20°	1453.3	1460.5	1476.3	1483.4	1496.3
22.5°	1420.4	1429.0	1441.9	1461.9	1469.1
25°	1396.0	1391.7	1410.3	1430.4	1439.0
27.5°	1347.3	1353.0	1378.8	1397.4	1404.6
30°	1317.2	1320.1	1334.4	1360.2	1368.8
32.5°	1264.2	1272.8	1298.6	1317.2	1333.0
35°	1219.7	1234.1	1254.1	1275.6	1282.8
37.5°	1181.0	1183.9	1206.8	1235.5	1241.2
40°	1123.7	1140.9	1158.1	1193.9	1202.5
42.5°	1079.3	1087.9	1112.2	1146.6	1159.5
45°	1017.6	1032.0	1059.2	1086.4	1109.4
47.5°	963.2	977.5	1013.3	1047.7	1052.0
50°	915.9	921.6	957.4	996.1	1000.4
52.5°	851.4	865.7	900.1	943.1	957.4
55°	791.2	809.8	842.8	888.6	897.2
57.5°	738.1	746.7	785.4	831.3	848.5
60°	666.5	690.8	726.7	771.1	786.9
62.5°	604.8	627.8	666.5	708.0	725.2
65°	538.9	561.8	604.8	652.1	676.5
67.5°	475.8	494.5	546.1	594.8	606.3
70°	409.9	431.4	480.1	530.3	553.2
72.5°	341.1	365.5	420.0	467.2	491.6
75°	279.5	302.4	356.9	407.1	427.1
77.5°	215.0	240.8	293.8	344.0	366.9
80°	153.4	179.2	235.1	285.2	305.3
82.5°	98.9	126.1	179.2	223.6	240.8
85°	50.2	71.7	117.5	137.6	143.3
87.5°	15.8	25.8	40.1	45.9	45.9
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	18.77	17.47	19.09	19.40	17.89	19.56	18.26	19.87	20.19
	3H	18.89	20.40	19.26	20.72	21.08	20.04	21.55	20.41	21.88	22.24
	4H	19.52	20.95	19.92	21.30	21.67	20.96	22.39	21.36	22.74	23.11
	6H	19.95	21.28	20.36	21.64	22.03	21.79	23.11	22.20	23.48	23.87
	8H	20.06	21.33	20.49	21.72	22.12	22.13	23.40	22.56	23.79	24.19
	12H	20.12	21.33	20.55	21.71	22.14	22.38	23.59	22.80	23.97	24.40
4H	2H	17.88	19.30	18.27	19.65	20.03	18.49	19.92	18.89	20.26	20.64
	3H	19.89	21.09	20.30	21.49	21.89	20.88	22.08	21.28	22.48	22.88
	4H	20.65	21.74	21.08	22.15	22.59	21.96	23.06	22.39	23.47	23.90
	6H	21.20	22.15	21.65	22.59	23.05	22.96	23.92	23.41	24.36	24.81
	8H	21.35	22.25	21.81	22.69	23.15	23.39	24.29	23.85	24.73	25.19
	12H	21.44	22.25	21.92	22.72	23.19	23.70	24.51	24.18	24.98	25.45
8H	4H	21.13	22.03	21.59	22.47	22.93	22.27	23.17	22.73	23.61	24.07
	6H	21.82	22.57	22.31	23.05	23.53	23.43	24.18	23.93	24.67	25.14
	8H	22.05	22.72	22.55	23.22	23.71	23.98	24.65	24.49	25.16	25.64
	12H	22.19	22.79	22.70	23.28	23.84	24.41	25.01	24.91	25.50	26.05
12H	4H	21.22	22.03	21.70	22.51	22.98	22.30	23.11	22.78	23.58	24.05
	6H	21.97	22.64	22.47	23.15	23.63	23.49	24.17	24.00	24.67	25.16
	8H	22.27	22.87	22.77	23.35	23.91	24.11	24.70	24.61	25.19	25.75