

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: P1586705

Luminaire Tested: 22CZSP-A-49HE-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586705
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-A-49HE-L935
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 4500 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

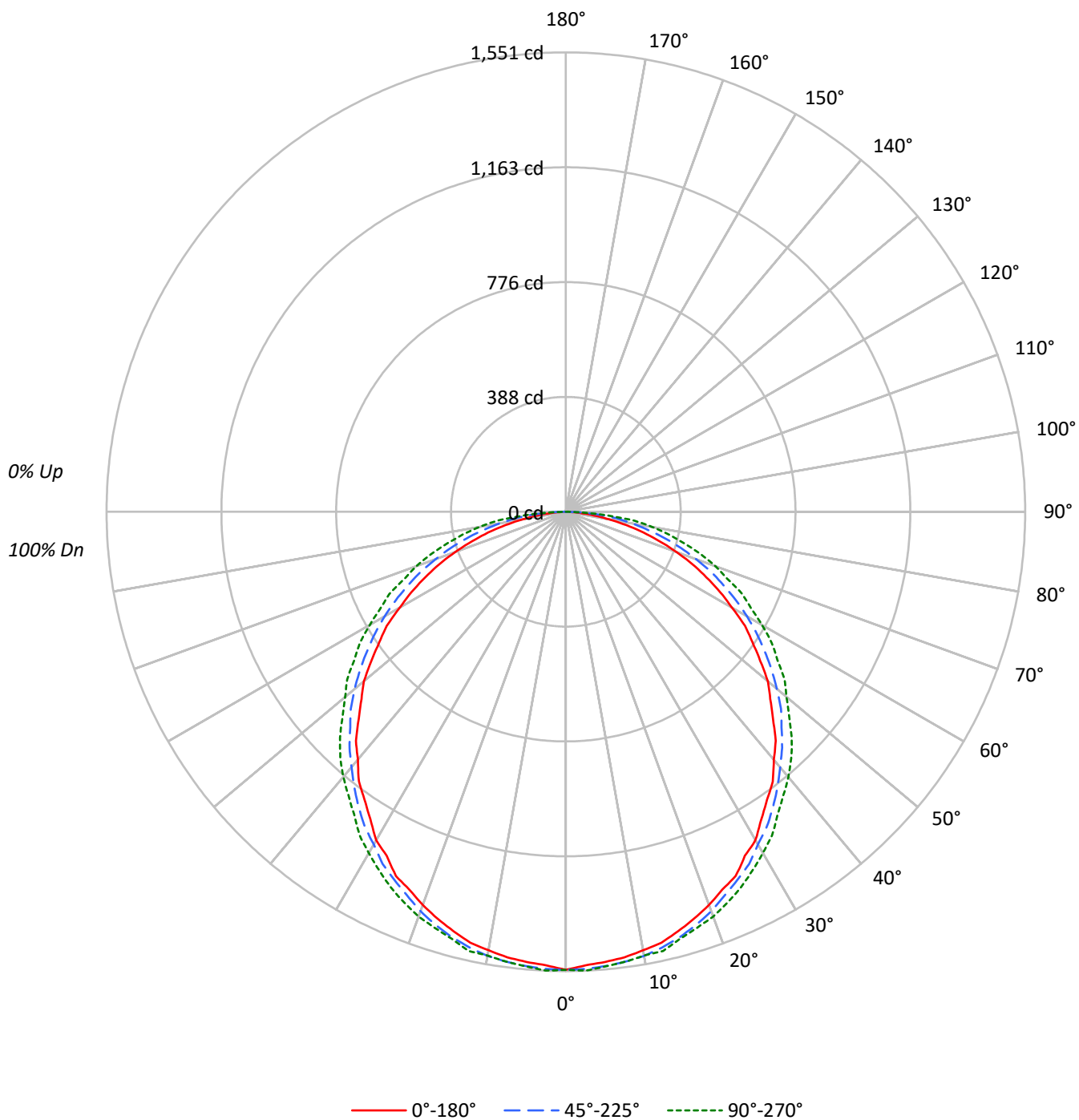
Lumens per Lamp: N/A
Luminaire Lumens: 4555.0 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	4843	4843	4843
5°	4795	4839	4843
10°	4780	4842	4837
15°	4751	4819	4837
20°	4708	4782	4847
25°	4688	4737	4833
30°	4630	4690	4811
35°	4532	4660	4766
40°	4465	4601	4778
45°	4381	4559	4775
50°	4337	4534	4738
55°	4199	4472	4762
60°	4057	4424	4790
65°	3881	4356	4872
70°	3648	4273	4924
75°	3287	4197	5023
80°	2689	4120	5352
85°	1753	4103	5005

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5616 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.2	3.2
10°-20°	418.6	9.2
20°-30°	632.6	13.9
30°-40°	763.0	16.8
40°-50°	797.6	17.5
50°-60°	735.5	16.1
60°-70°	582.8	12.8
70°-80°	364.4	8.0
80°-90°	114.3	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°	1197.3	26.3
0°-40°	1960.3	43.0
0°-60°	3493.5	76.7
0°-90°	4555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4555.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1546	1546	1546	1546	1546	
5°	1526	1532	1540	1545	1541	145
15°	1466	1473	1487	1496	1492	414
25°	1357	1353	1371	1390	1399	622
35°	1186	1200	1219	1240	1247	744
45°	989	1003	1030	1056	1078	766
55°	769	787	819	864	872	690
65°	524	546	588	634	658	519
75°	272	294	347	396	415	286
85°	49	70	114	134	139	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1546.5	1546.5	1546.5	1546.5	1546.5
2.5°	1532.5	1539.5	1545.1	1543.7	1550.6
5°	1525.6	1532.5	1539.5	1545.1	1540.9
7.5°	1517.2	1524.2	1532.5	1540.9	1532.5
10°	1503.3	1507.5	1522.8	1524.2	1521.4
12.5°	1490.7	1494.9	1506.1	1515.8	1518.6
15°	1465.7	1472.6	1486.6	1496.3	1492.1
17.5°	1440.6	1450.3	1462.9	1472.6	1472.6
20°	1412.7	1419.7	1435.0	1442.0	1454.5
22.5°	1380.7	1389.0	1401.6	1421.1	1428.0
25°	1357.0	1352.8	1370.9	1390.4	1398.8
27.5°	1309.6	1315.2	1340.3	1358.4	1365.3
30°	1280.4	1283.1	1297.1	1322.2	1330.5
32.5°	1228.8	1237.2	1262.2	1280.4	1295.7
35°	1185.6	1199.6	1219.1	1240.0	1246.9
37.5°	1148.0	1150.8	1173.1	1200.9	1206.5
40°	1092.3	1109.0	1125.7	1160.5	1168.9
42.5°	1049.1	1057.4	1081.1	1114.6	1127.1
45°	989.2	1003.1	1029.6	1056.1	1078.3
47.5°	936.2	950.2	985.0	1018.4	1022.6
50°	890.3	895.8	930.7	968.3	972.5
52.5°	827.6	841.5	874.9	916.7	930.7
55°	769.1	787.2	819.2	863.8	872.2
57.5°	717.5	725.9	763.5	808.1	824.8
60°	647.8	671.5	706.4	749.5	764.9
62.5°	587.9	610.2	647.8	688.2	705.0
65°	523.8	546.1	587.9	633.9	657.6
67.5°	462.5	480.7	530.8	578.2	589.3
70°	398.5	419.4	466.7	515.5	537.8
72.5°	331.6	355.3	408.2	454.2	477.9
75°	271.7	294.0	346.9	395.7	415.2
77.5°	209.0	234.1	285.6	334.4	356.7
80°	149.1	174.2	228.5	277.2	296.8
82.5°	96.1	122.6	174.2	217.3	234.1
85°	48.8	69.7	114.2	133.7	139.3
87.5°	15.3	25.1	39.0	44.6	44.6
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	17.01	18.67	17.37	18.99	19.30	17.80	19.46	18.16	19.78	20.09
	3H	18.79	20.30	19.16	20.63	20.99	19.94	21.45	20.32	21.78	22.14
	4H	19.42	20.85	19.82	21.20	21.57	20.86	22.29	21.26	22.64	23.01
	6H	19.85	21.18	20.26	21.54	21.93	21.69	23.01	22.10	23.38	23.77
	8H	19.96	21.23	20.39	21.62	22.02	22.03	23.30	22.46	23.69	24.09
	12H	20.02	21.23	20.45	21.62	22.04	22.28	23.49	22.71	23.87	24.30
4H	2H	17.78	19.21	18.18	19.55	19.93	18.39	19.82	18.79	20.17	20.54
	3H	19.79	20.99	20.20	21.39	21.79	20.78	21.98	21.19	22.38	22.78
	4H	20.55	21.64	20.98	22.05	22.49	21.86	22.96	22.30	23.37	23.80
	6H	21.10	22.06	21.55	22.49	22.95	22.86	23.82	23.32	24.26	24.71
	8H	21.25	22.15	21.71	22.59	23.05	23.29	24.19	23.75	24.63	25.09
	12H	21.34	22.15	21.82	22.62	23.09	23.60	24.41	24.08	24.89	25.35
8H	4H	21.03	21.93	21.49	22.37	22.83	22.17	23.07	22.63	23.51	23.98
	6H	21.72	22.47	22.21	22.96	23.43	23.34	24.09	23.83	24.57	25.05
	8H	21.95	22.62	22.45	23.13	23.61	23.88	24.55	24.39	25.06	25.54
	12H	22.09	22.69	22.60	23.18	23.74	24.31	24.91	24.82	25.40	25.95
12H	4H	21.13	21.94	21.60	22.41	22.88	22.20	23.01	22.68	23.48	23.95
	6H	21.87	22.54	22.37	23.05	23.53	23.39	24.07	23.90	24.57	25.06
	8H	22.17	22.77	22.68	23.26	23.82	24.01	24.61	24.51	25.10	25.65