

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: P1584351

Luminaire Tested: 14CZSP-49HE-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2602-698-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-49HE-L950
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 4500 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

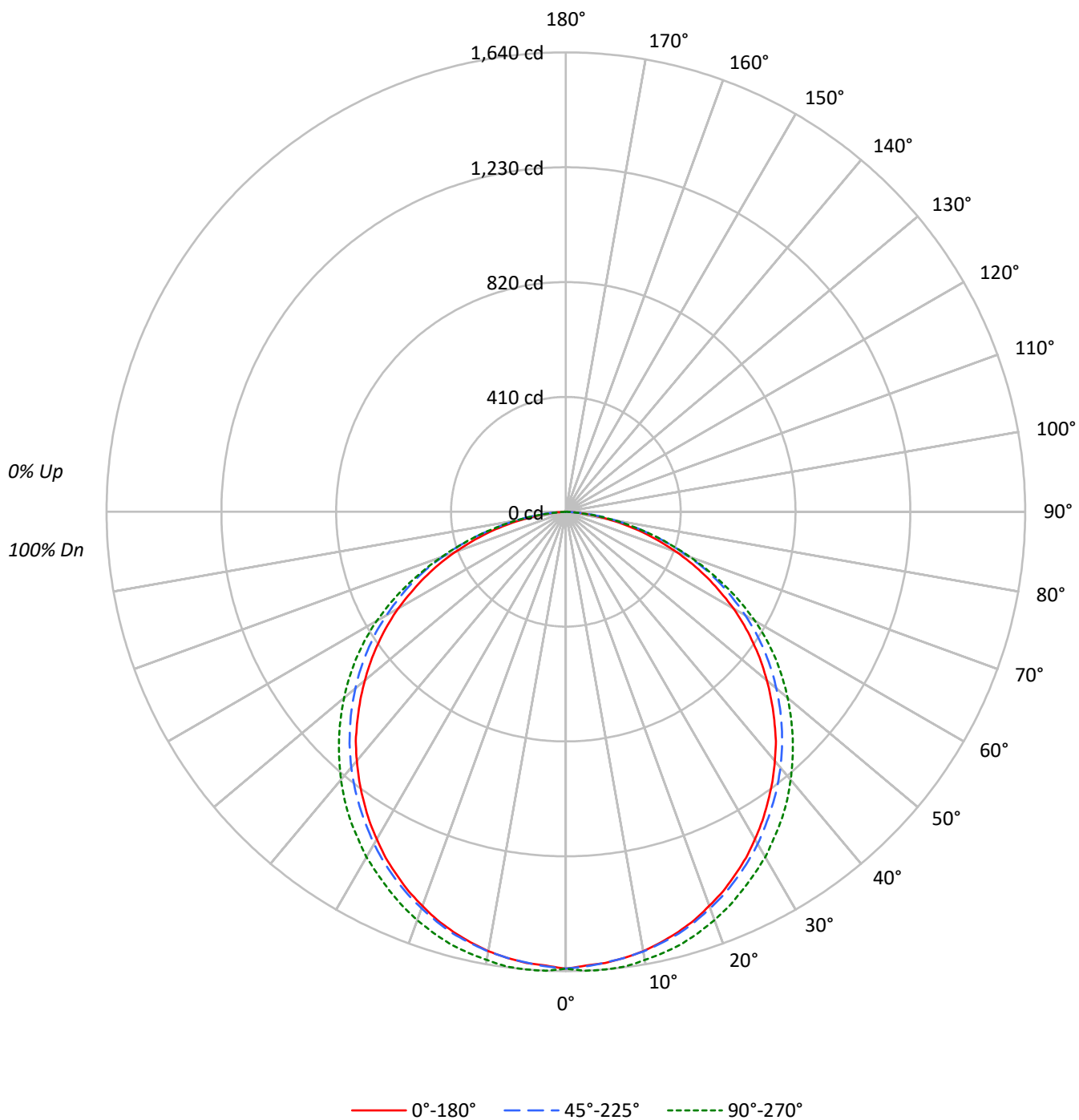
Lumens per Lamp: N/A
Luminaire Lumens: 4698.0 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
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	109	104	100	96	106	102	98	94	97	94	91		94	91	88		90
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	73	61	53	47	59	52	46		57	51	46		55
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	44	37	32		43	36	32		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5496	5496	5496
5°	5470	5465	5548
10°	5449	5454	5559
15°	5416	5438	5572
20°	5369	5402	5562
25°	5316	5367	5544
30°	5252	5330	5539
35°	5180	5281	5521
40°	5107	5242	5492
45°	5013	5196	5460
50°	4911	5144	5418
55°	4800	5079	5368
60°	4657	4988	5258
65°	4445	4861	5021
70°	4146	4584	4660
75°	3699	4139	4179
80°	3010	3487	3456
85°	1960	2436	1898

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5460 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.5	3.3
10°-20°	442.6	9.4
20°-30°	670.4	14.3
30°-40°	809.8	17.2
40°-50°	845.9	18.0
50°-60°	774.7	16.5
60°-70°	595.2	12.7
70°-80°	331.5	7.1
80°-90°	73.4	1.6
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°	1267.5	27.0
0°-40°	2077.3	44.2
0°-60°	3697.9	78.7
0°-90°	4698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4698.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1631	1631	1631	1631	1631	
5°	1617	1634	1616	1625	1640	154
15°	1553	1568	1559	1574	1597	438
25°	1430	1447	1444	1465	1491	659
35°	1259	1278	1284	1315	1342	788
45°	1052	1075	1090	1123	1146	812
55°	817	843	865	895	914	730
65°	558	587	610	622	630	551
75°	284	313	318	318	321	301
85°	51	60	63	52	49	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1631.0	1631.0	1631.0	1631.0	1631.0
2.5°	1621.7	1637.1	1624.8	1629.4	1640.2
5°	1617.1	1634.0	1615.6	1624.8	1640.2
7.5°	1606.4	1621.7	1606.4	1617.1	1637.1
10°	1592.6	1609.5	1594.1	1604.9	1624.8
12.5°	1574.1	1588.0	1577.2	1592.6	1612.5
15°	1552.6	1568.0	1558.8	1574.1	1597.2
17.5°	1528.1	1541.9	1534.2	1554.2	1575.7
20°	1497.3	1512.7	1506.6	1526.5	1551.1
22.5°	1466.6	1482.0	1477.4	1497.3	1523.5
25°	1429.8	1446.7	1443.6	1465.1	1491.2
27.5°	1392.9	1409.8	1408.3	1432.8	1457.4
30°	1349.9	1366.8	1369.9	1396.0	1423.6
32.5°	1306.9	1325.3	1326.9	1356.1	1382.2
35°	1259.3	1277.7	1283.9	1314.6	1342.2
37.5°	1211.7	1230.1	1239.3	1268.5	1297.7
40°	1161.0	1181.0	1191.7	1222.5	1248.6
42.5°	1110.3	1130.3	1142.6	1173.3	1197.9
45°	1052.0	1075.0	1090.4	1122.6	1145.7
47.5°	995.2	1019.7	1036.6	1067.3	1090.4
50°	936.8	962.9	981.3	1012.1	1033.6
52.5°	878.4	906.1	924.5	953.7	975.2
55°	817.0	843.1	864.6	895.3	913.8
57.5°	755.6	781.7	804.7	832.4	849.3
60°	691.1	718.7	740.2	767.9	780.2
62.5°	623.5	652.7	674.2	695.7	706.4
65°	557.5	586.7	609.7	622.0	629.7
67.5°	489.9	519.1	540.6	546.7	551.3
70°	420.8	450.0	465.3	468.4	473.0
72.5°	351.7	380.9	393.2	393.2	394.7
75°	284.1	313.3	317.9	317.9	321.0
77.5°	218.1	244.2	247.3	247.3	247.3
80°	155.1	175.1	179.7	179.7	178.1
82.5°	98.3	112.1	119.8	113.6	110.6
85°	50.7	59.9	63.0	52.2	49.1
87.5°	15.4	18.4	15.4	9.2	7.7
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	17.66	19.31	18.03	19.63	19.94	18.17	19.82	18.54	20.13	20.45
	3H	19.44	20.93	19.81	21.25	21.61	19.97	21.46	20.34	21.78	22.14
	4H	20.06	21.46	20.46	21.81	22.19	20.60	22.00	21.00	22.35	22.73
	6H	20.46	21.76	20.87	22.13	22.52	21.02	22.32	21.43	22.69	23.08
	8H	20.56	21.80	20.98	22.19	22.59	21.13	22.37	21.55	22.76	23.16
	12H	20.61	21.80	21.04	22.18	22.61	21.16	22.36	21.59	22.74	23.17
4H	2H	18.39	19.79	18.78	20.14	20.51	18.78	20.19	19.18	20.53	20.91
	3H	20.38	21.56	20.79	21.95	22.35	20.79	21.97	21.20	22.37	22.77
	4H	21.14	22.20	21.57	22.61	23.05	21.55	22.61	21.98	23.02	23.46
	6H	21.66	22.59	22.11	23.03	23.48	22.08	23.01	22.54	23.45	23.91
	8H	21.79	22.66	22.25	23.10	23.57	22.23	23.10	22.69	23.54	24.00
	12H	21.86	22.65	22.34	23.12	23.59	22.29	23.07	22.77	23.55	24.02
8H	4H	21.47	22.34	21.93	22.78	23.25	21.83	22.70	22.29	23.14	23.61
	6H	22.10	22.82	22.60	23.31	23.79	22.47	23.20	22.97	23.68	24.16
	8H	22.29	22.94	22.80	23.45	23.93	22.67	23.31	23.18	23.82	24.31
	12H	22.42	22.99	22.92	23.48	24.04	22.77	23.35	23.28	23.84	24.40
12H	4H	21.50	22.28	21.98	22.76	23.23	21.86	22.64	22.34	23.11	23.58
	6H	22.15	22.80	22.66	23.31	23.79	22.51	23.16	23.02	23.67	24.15
	8H	22.40	22.97	22.90	23.46	24.02	22.76	23.33	23.26	23.82	24.38