

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: P1584343

Luminaire Tested: 14CZSP-49HE-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584343
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-L930
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 4500 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

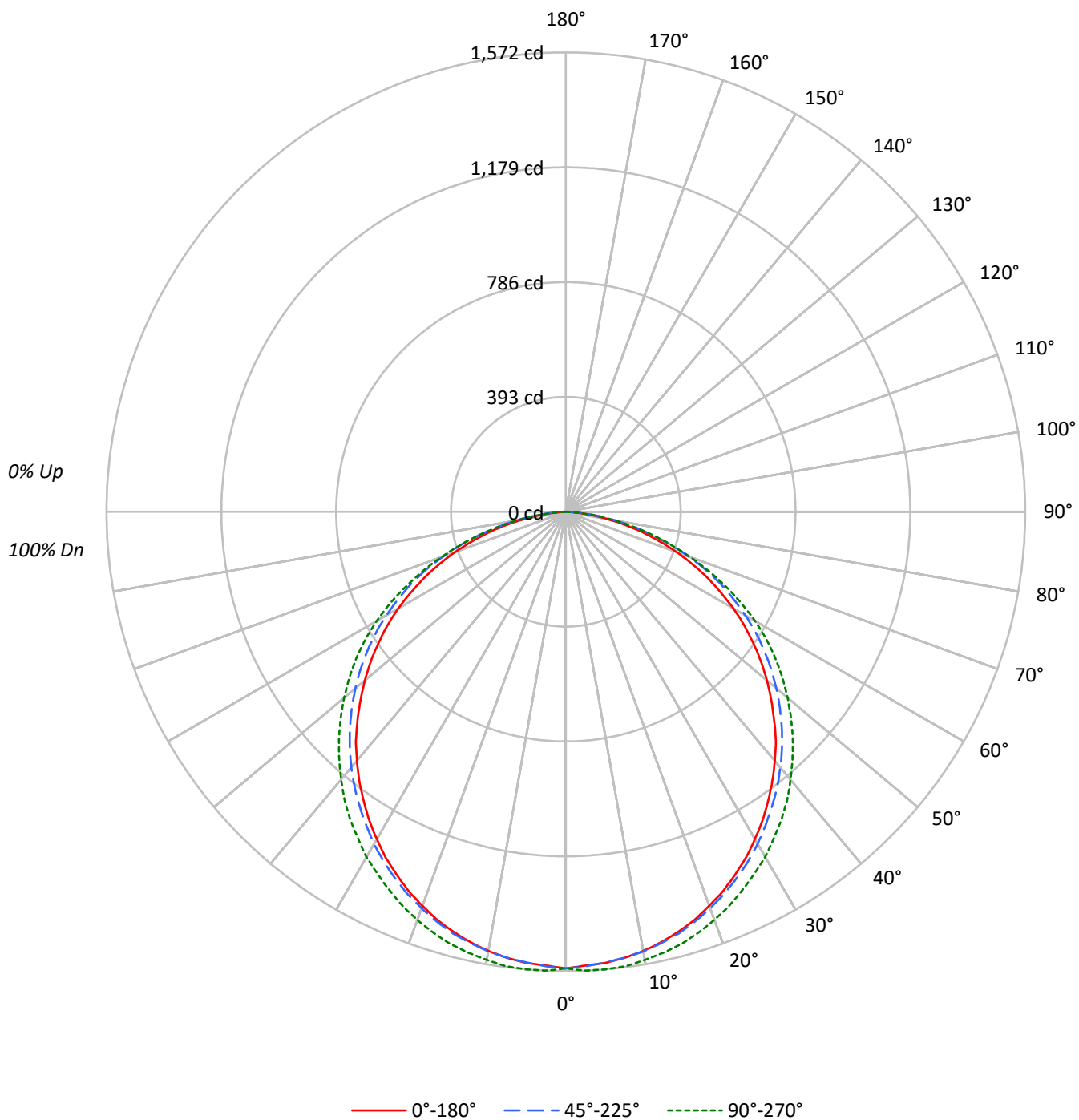
Lumens per Lamp: N/A
Luminaire Lumens: 4502.0 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	5266	5266	5266
5°	5242	5237	5316
10°	5222	5227	5327
15°	5190	5211	5339
20°	5145	5177	5330
25°	5094	5143	5313
30°	5033	5108	5308
35°	4964	5061	5291
40°	4894	5023	5263
45°	4804	4979	5232
50°	4706	4930	5192
55°	4599	4868	5144
60°	4463	4780	5038
65°	4259	4659	4811
70°	3972	4393	4466
75°	3545	3966	4005
80°	2884	3341	3312
85°	1879	2331	1821

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5232 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.0	3.3
10°-20°	424.1	9.4
20°-30°	642.4	14.3
30°-40°	776.0	17.2
40°-50°	810.7	18.0
50°-60°	742.3	16.5
60°-70°	570.4	12.7
70°-80°	317.6	7.1
80°-90°	70.3	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°	1214.6	27.0
0°-40°	1990.7	44.2
0°-60°	3543.7	78.7
0°-90°	4502.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4502.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1563	1563	1563	1563	1563	
5°	1550	1566	1548	1557	1572	147
15°	1488	1503	1494	1508	1530	420
25°	1370	1386	1383	1404	1429	632
35°	1207	1224	1230	1260	1286	755
45°	1008	1030	1045	1076	1098	778
55°	783	808	829	858	876	700
65°	534	562	584	596	603	528
75°	272	300	305	305	308	288
85°	49	57	60	50	47	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1562.9	1562.9	1562.9	1562.9	1562.9
2.5°	1554.1	1568.8	1557.0	1561.4	1571.7
5°	1549.7	1565.9	1548.2	1557.0	1571.7
7.5°	1539.4	1554.1	1539.4	1549.7	1568.8
10°	1526.1	1542.3	1527.6	1537.9	1557.0
12.5°	1508.5	1521.7	1511.4	1526.1	1545.3
15°	1487.9	1502.6	1493.7	1508.5	1530.5
17.5°	1464.3	1477.6	1470.2	1489.3	1509.9
20°	1434.9	1449.6	1443.7	1462.8	1486.4
22.5°	1405.4	1420.2	1415.7	1434.9	1459.9
25°	1370.1	1386.3	1383.4	1404.0	1429.0
27.5°	1334.8	1351.0	1349.5	1373.1	1396.6
30°	1293.6	1309.8	1312.7	1337.8	1364.2
32.5°	1252.4	1270.1	1271.5	1299.5	1324.5
35°	1206.8	1224.4	1230.3	1259.8	1286.2
37.5°	1161.1	1178.8	1187.6	1215.6	1243.6
40°	1112.6	1131.7	1142.0	1171.5	1196.5
42.5°	1064.0	1083.2	1094.9	1124.4	1147.9
45°	1008.1	1030.2	1044.9	1075.8	1097.9
47.5°	953.6	977.2	993.4	1022.8	1044.9
50°	897.7	922.7	940.4	969.8	990.4
52.5°	841.8	868.3	885.9	913.9	934.5
55°	782.9	807.9	828.6	858.0	875.6
57.5°	724.1	749.1	771.2	797.6	813.8
60°	662.3	688.7	709.3	735.8	747.6
62.5°	597.5	625.5	646.1	666.7	677.0
65°	534.2	562.2	584.3	596.0	603.4
67.5°	469.5	497.4	518.0	523.9	528.3
70°	403.2	431.2	445.9	448.9	453.3
72.5°	337.0	365.0	376.7	376.7	378.2
75°	272.3	300.2	304.6	304.6	307.6
77.5°	209.0	234.0	236.9	236.9	236.9
80°	148.6	167.8	172.2	172.2	170.7
82.5°	94.2	107.4	114.8	108.9	106.0
85°	48.6	57.4	60.3	50.0	47.1
87.5°	14.7	17.7	14.7	8.8	7.4
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	17.52	19.16	17.88	19.48	19.79	18.02	19.67	18.39	19.98	20.30
	3H	19.29	20.78	19.66	21.10	21.46	19.82	21.31	20.20	21.64	22.00
	4H	19.91	21.31	20.31	21.66	22.04	20.45	21.85	20.85	22.20	22.58
	6H	20.31	21.62	20.72	21.98	22.37	20.87	22.17	21.28	22.54	22.93
	8H	20.41	21.66	20.84	22.04	22.44	20.98	22.22	21.40	22.61	23.01
	12H	20.46	21.65	20.89	22.03	22.46	21.02	22.21	21.45	22.59	23.02
4H	2H	18.24	19.64	18.64	19.99	20.36	18.63	20.04	19.03	20.38	20.76
	3H	20.23	21.41	20.64	21.80	22.20	20.65	21.82	21.05	22.22	22.62
	4H	20.99	22.05	21.42	22.47	22.90	21.40	22.46	21.83	22.87	23.31
	6H	21.51	22.44	21.96	22.88	23.33	21.94	22.87	22.39	23.31	23.76
	8H	21.64	22.51	22.10	22.95	23.42	22.08	22.95	22.54	23.39	23.85
	12H	21.72	22.50	22.20	22.97	23.44	22.14	22.92	22.62	23.40	23.87
8H	4H	21.32	22.19	21.78	22.63	23.10	21.68	22.55	22.14	22.99	23.46
	6H	21.95	22.68	22.45	23.16	23.64	22.32	23.05	22.82	23.53	24.01
	8H	22.15	22.79	22.65	23.30	23.78	22.52	23.17	23.03	23.67	24.16
	12H	22.27	22.84	22.78	23.33	23.89	22.63	23.20	23.13	23.69	24.25
12H	4H	21.35	22.13	21.83	22.61	23.08	21.71	22.49	22.19	22.96	23.43
	6H	22.00	22.65	22.51	23.16	23.64	22.36	23.01	22.87	23.52	24.00
	8H	22.25	22.82	22.75	23.31	23.87	22.61	23.18	23.11	23.67	24.23