

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: P1584345

Luminaire Tested: 14CZSP-49HE-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584345
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-L935
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 4500 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

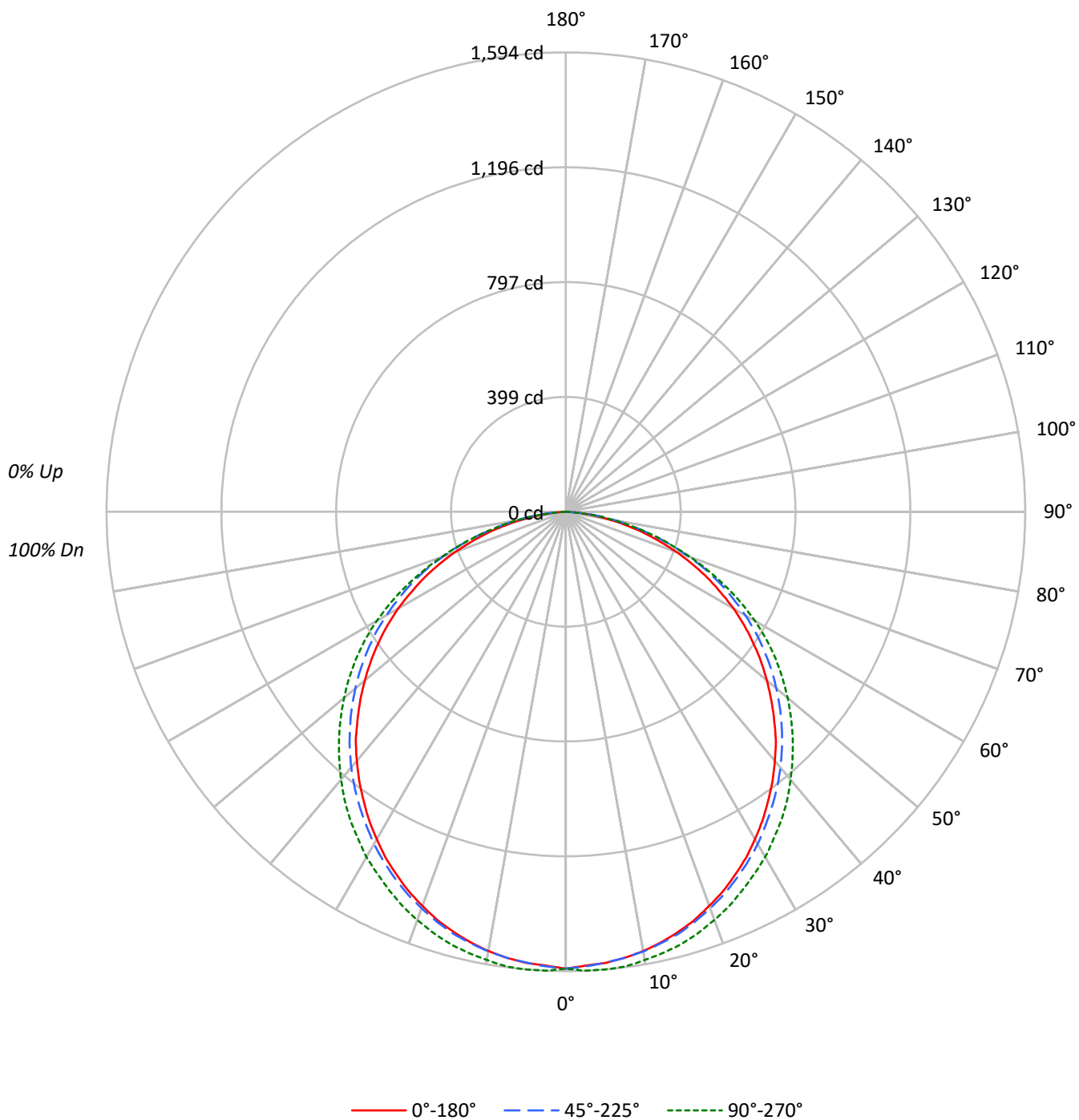
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4566.0 lumens
Efficiency: N/A
Efficacy: 137.9 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°	5341	5341	5341
5°	5316	5311	5392
10°	5296	5301	5403
15°	5264	5285	5415
20°	5218	5250	5406
25°	5166	5216	5388
30°	5105	5180	5383
35°	5035	5133	5366
40°	4963	5095	5338
45°	4872	5050	5306
50°	4773	5000	5266
55°	4665	4936	5217
60°	4527	4848	5110
65°	4320	4725	4880
70°	4029	4456	4529
75°	3595	4023	4062
80°	2926	3388	3359
85°	1906	2366	1848

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5306 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	3.3
10°-20°	430.2	9.4
20°-30°	651.6	14.3
30°-40°	787.1	17.2
40°-50°	822.2	18.0
50°-60°	752.9	16.5
60°-70°	578.5	12.7
70°-80°	322.1	7.1
80°-90°	71.3	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°	1231.9	27.0
0°-40°	2019.0	44.2
0°-60°	3594.0	78.7
0°-90°	4566.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4566.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1585	1585	1585	1585	1585	
5°	1572	1588	1570	1579	1594	149
15°	1509	1524	1515	1530	1552	426
25°	1390	1406	1403	1424	1449	641
35°	1224	1242	1248	1278	1304	766
45°	1022	1045	1060	1091	1114	789
55°	794	819	840	870	888	710
65°	542	570	593	604	612	535
75°	276	304	309	309	312	292
85°	49	58	61	51	48	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1585.1	1585.1	1585.1	1585.1	1585.1
2.5°	1576.2	1591.1	1579.2	1583.6	1594.1
5°	1571.7	1588.1	1570.2	1579.2	1594.1
7.5°	1561.3	1576.2	1561.3	1571.7	1591.1
10°	1547.8	1564.2	1549.3	1559.8	1579.2
12.5°	1529.9	1543.3	1532.9	1547.8	1567.2
15°	1509.0	1523.9	1515.0	1529.9	1552.3
17.5°	1485.1	1498.6	1491.1	1510.5	1531.4
20°	1455.3	1470.2	1464.2	1483.6	1507.5
22.5°	1425.4	1440.4	1435.9	1455.3	1480.7
25°	1389.6	1406.0	1403.0	1423.9	1449.3
27.5°	1353.8	1370.2	1368.7	1392.6	1416.5
30°	1312.0	1328.4	1331.4	1356.8	1383.6
32.5°	1270.2	1288.1	1289.6	1318.0	1343.3
35°	1223.9	1241.8	1247.8	1277.7	1304.5
37.5°	1177.7	1195.6	1204.5	1232.9	1261.2
40°	1128.4	1147.8	1158.3	1188.1	1213.5
42.5°	1079.1	1098.5	1110.5	1140.3	1164.2
45°	1022.4	1044.8	1059.7	1091.1	1113.5
47.5°	967.2	991.1	1007.5	1037.4	1059.7
50°	910.5	935.9	953.8	983.6	1004.5
52.5°	853.8	880.6	898.5	926.9	947.8
55°	794.1	819.4	840.3	870.2	888.1
57.5°	734.4	759.7	782.1	809.0	825.4
60°	671.7	698.5	719.4	746.3	758.2
62.5°	606.0	634.4	655.2	676.1	686.6
65°	541.8	570.2	592.6	604.5	612.0
67.5°	476.1	504.5	525.4	531.4	535.8
70°	409.0	437.3	452.3	455.2	459.7
72.5°	341.8	370.2	382.1	382.1	383.6
75°	276.1	304.5	309.0	309.0	312.0
77.5°	211.9	237.3	240.3	240.3	240.3
80°	150.8	170.2	174.6	174.6	173.1
82.5°	95.5	109.0	116.4	110.5	107.5
85°	49.3	58.2	61.2	50.7	47.8
87.5°	14.9	17.9	14.9	9.0	7.5
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	17.57	19.21	17.93	19.53	19.84	18.07	19.72	18.44	20.03	20.35
	3H	19.34	20.83	19.71	21.15	21.51	19.87	21.36	20.25	21.69	22.05
	4H	19.96	21.36	20.36	21.71	22.09	20.50	21.90	20.90	22.25	22.63
	6H	20.36	21.66	20.77	22.03	22.42	20.92	22.22	21.33	22.59	22.98
	8H	20.46	21.70	20.89	22.09	22.49	21.03	22.27	21.45	22.66	23.06
	12H	20.51	21.70	20.94	22.08	22.51	21.07	22.26	21.50	22.64	23.07
4H	2H	18.29	19.69	18.68	20.04	20.41	18.68	20.09	19.08	20.43	20.81
	3H	20.28	21.46	20.69	21.85	22.25	20.69	21.87	21.10	22.27	22.67
	4H	21.04	22.10	21.47	22.51	22.95	21.45	22.51	21.88	22.92	23.36
	6H	21.56	22.49	22.01	22.93	23.38	21.99	22.92	22.44	23.36	23.81
	8H	21.69	22.56	22.15	23.00	23.47	22.13	23.00	22.59	23.44	23.90
	12H	21.77	22.55	22.24	23.02	23.49	22.19	22.97	22.67	23.45	23.92
8H	4H	21.37	22.24	21.83	22.68	23.15	21.73	22.60	22.19	23.04	23.51
	6H	22.00	22.73	22.50	23.21	23.69	22.37	23.10	22.87	23.58	24.06
	8H	22.20	22.84	22.70	23.35	23.83	22.57	23.22	23.08	23.72	24.21
	12H	22.32	22.89	22.82	23.38	23.94	22.67	23.25	23.18	23.74	24.30
12H	4H	21.40	22.18	21.88	22.66	23.13	21.76	22.54	22.24	23.01	23.48
	6H	22.05	22.70	22.56	23.21	23.69	22.41	23.06	22.92	23.57	24.05
	8H	22.30	22.87	22.80	23.36	23.92	22.66	23.23	23.16	23.72	24.28