

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: P1584365

Luminaire Tested: 14CZSP-52-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2603-724-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-52-L935
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 4500 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

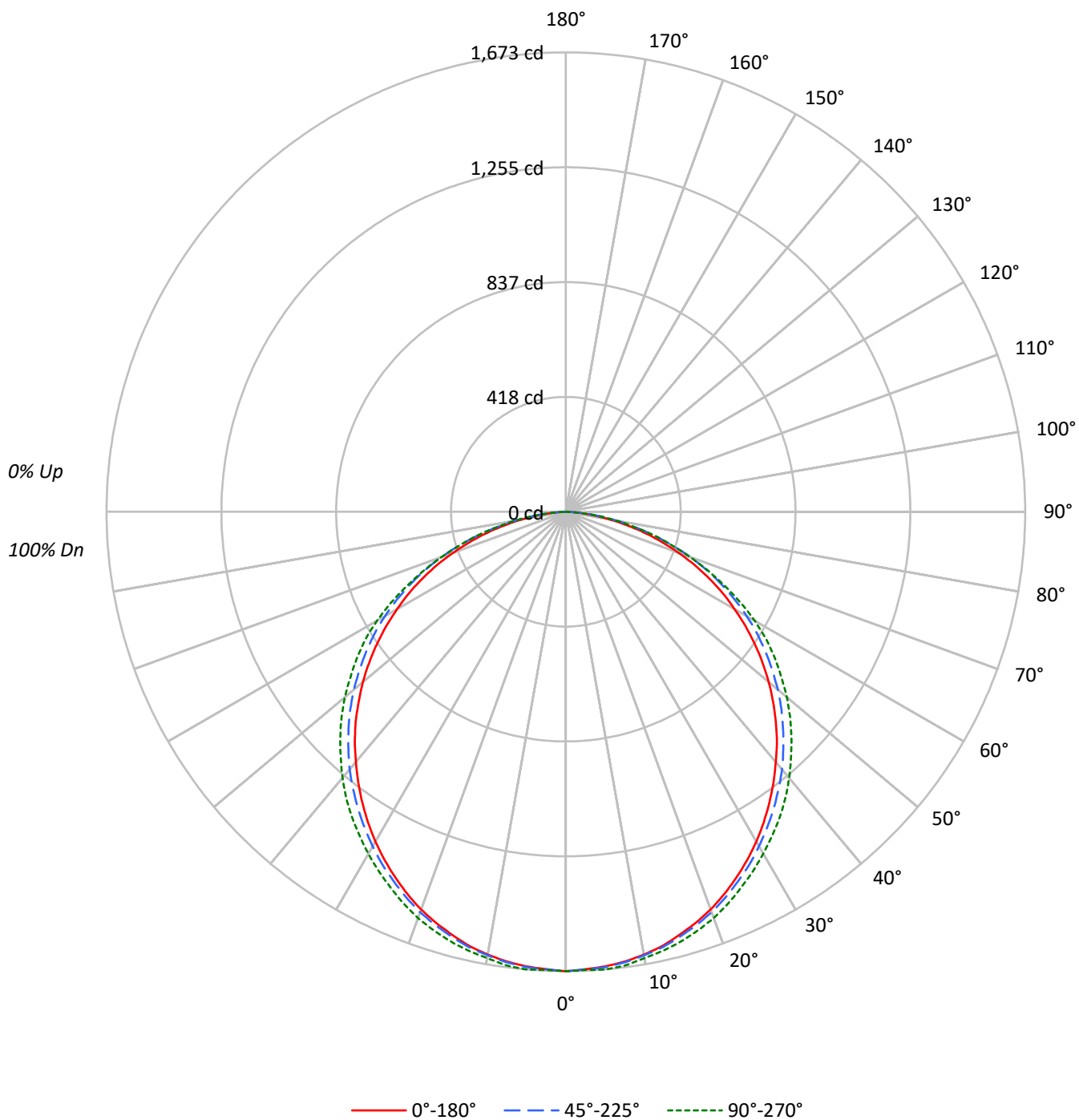
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4828.0 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 36.9
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		93	91	88		90
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	53		62
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		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°	5638	5638	5638
5°	5621	5630	5660
10°	5602	5612	5647
15°	5567	5592	5652
20°	5528	5564	5646
25°	5465	5519	5614
30°	5397	5474	5597
35°	5317	5429	5587
40°	5232	5389	5566
45°	5157	5334	5538
50°	5057	5282	5507
55°	4936	5213	5457
60°	4784	5132	5354
65°	4599	4987	5090
70°	4315	4738	4738
75°	3876	4304	4324
80°	3194	3638	3638
85°	2215	2656	2324

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5538 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.5	3.3
10°-20°	453.9	9.4
20°-30°	687.0	14.2
30°-40°	829.4	17.2
40°-50°	866.5	17.9
50°-60°	793.8	16.4
60°-70°	612.0	12.7
70°-80°	345.3	7.2
80°-90°	81.7	1.7
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°	1299.4	26.9
0°-40°	2128.8	44.1
0°-60°	3789.0	78.5
0°-90°	4828.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4828.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1673	1673	1673	1673	1673	
5°	1662	1673	1665	1668	1673	158
15°	1596	1606	1603	1616	1620	450
25°	1470	1483	1484	1504	1510	677
35°	1292	1310	1320	1348	1358	809
45°	1082	1101	1119	1152	1162	834
55°	840	862	887	920	929	751
65°	577	595	626	647	638	570
75°	298	321	331	339	332	316
85°	57	64	69	73	60	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1673.2	1673.2	1673.2	1673.2	1673.2
2.5°	1667.5	1679.0	1667.5	1673.2	1670.4
5°	1661.8	1673.2	1664.6	1667.5	1673.2
7.5°	1651.8	1663.2	1654.6	1658.9	1666.1
10°	1637.4	1648.9	1640.3	1647.5	1650.3
12.5°	1620.3	1630.3	1624.6	1633.2	1637.4
15°	1595.9	1606.0	1603.1	1616.0	1620.3
17.5°	1570.2	1581.6	1578.8	1594.5	1598.8
20°	1541.5	1551.6	1551.6	1565.9	1574.5
22.5°	1507.2	1518.6	1520.1	1535.8	1544.4
25°	1470.0	1482.9	1484.3	1504.3	1510.1
27.5°	1429.9	1442.8	1448.5	1470.0	1475.7
30°	1387.0	1399.8	1407.0	1431.3	1438.5
32.5°	1341.2	1356.9	1364.1	1391.3	1398.4
35°	1292.5	1309.7	1319.7	1348.3	1358.3
37.5°	1242.4	1259.6	1272.5	1302.5	1314.0
40°	1189.4	1208.0	1225.2	1255.3	1265.3
42.5°	1137.9	1156.5	1172.3	1203.8	1213.8
45°	1082.1	1100.7	1119.3	1152.2	1162.2
47.5°	1023.4	1043.4	1064.9	1095.0	1107.9
50°	964.7	984.8	1007.7	1039.1	1050.6
52.5°	903.2	924.6	947.5	980.5	989.1
55°	840.2	861.7	887.4	920.3	928.9
57.5°	775.8	798.7	825.9	857.4	866.0
60°	709.9	732.8	761.5	791.5	794.4
62.5°	645.5	665.6	694.2	722.8	718.5
65°	576.8	595.4	625.5	647.0	638.4
67.5°	508.1	528.2	555.4	571.1	559.7
70°	438.0	459.5	480.9	492.4	480.9
72.5°	367.9	390.8	406.5	413.7	403.6
75°	297.7	320.6	330.6	339.2	332.1
77.5°	230.4	251.9	256.2	266.2	256.2
80°	164.6	184.6	187.5	197.5	187.5
82.5°	105.9	118.8	124.5	133.1	123.1
85°	57.3	64.4	68.7	73.0	60.1
87.5°	20.0	22.9	20.0	17.2	7.2
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	17.72	19.37	18.09	19.69	20.00	18.27	19.92	18.63	20.23	20.54
	3H	19.51	21.00	19.89	21.33	21.69	20.07	21.57	20.45	21.89	22.25
	4H	20.15	21.56	20.55	21.90	22.28	20.72	22.12	21.12	22.47	22.85
	6H	20.57	21.88	20.98	22.24	22.63	21.16	22.46	21.57	22.83	23.22
	8H	20.68	21.93	21.11	22.32	22.71	21.28	22.53	21.70	22.91	23.31
	12H	20.74	21.93	21.16	22.31	22.74	21.34	22.53	21.77	22.91	23.34
4H	2H	18.45	19.86	18.85	20.20	20.58	18.87	20.28	19.27	20.63	21.00
	3H	20.45	21.64	20.86	22.03	22.43	20.91	22.09	21.32	22.49	22.89
	4H	21.22	22.29	21.65	22.70	23.14	21.69	22.76	22.12	23.17	23.61
	6H	21.77	22.70	22.22	23.14	23.60	22.26	23.19	22.71	23.63	24.09
	8H	21.91	22.79	22.37	23.23	23.69	22.42	23.30	22.88	23.74	24.20
	12H	22.00	22.78	22.48	23.26	23.73	22.51	23.30	22.99	23.77	24.24
8H	4H	21.57	22.44	22.03	22.88	23.35	21.98	22.85	22.44	23.29	23.76
	6H	22.22	22.95	22.72	23.44	23.91	22.66	23.39	23.15	23.87	24.35
	8H	22.43	23.08	22.94	23.59	24.07	22.89	23.54	23.40	24.05	24.53
	12H	22.57	23.14	23.07	23.63	24.19	23.04	23.62	23.55	24.11	24.67
12H	4H	21.60	22.39	22.08	22.86	23.33	22.00	22.79	22.48	23.26	23.73
	6H	22.28	22.93	22.79	23.44	23.92	22.70	23.35	23.21	23.86	24.34
	8H	22.54	23.11	23.04	23.60	24.16	22.99	23.56	23.49	24.05	24.61