

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: P1584362

Luminaire Tested: 14CZSP-52-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-52-L930-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 4500 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

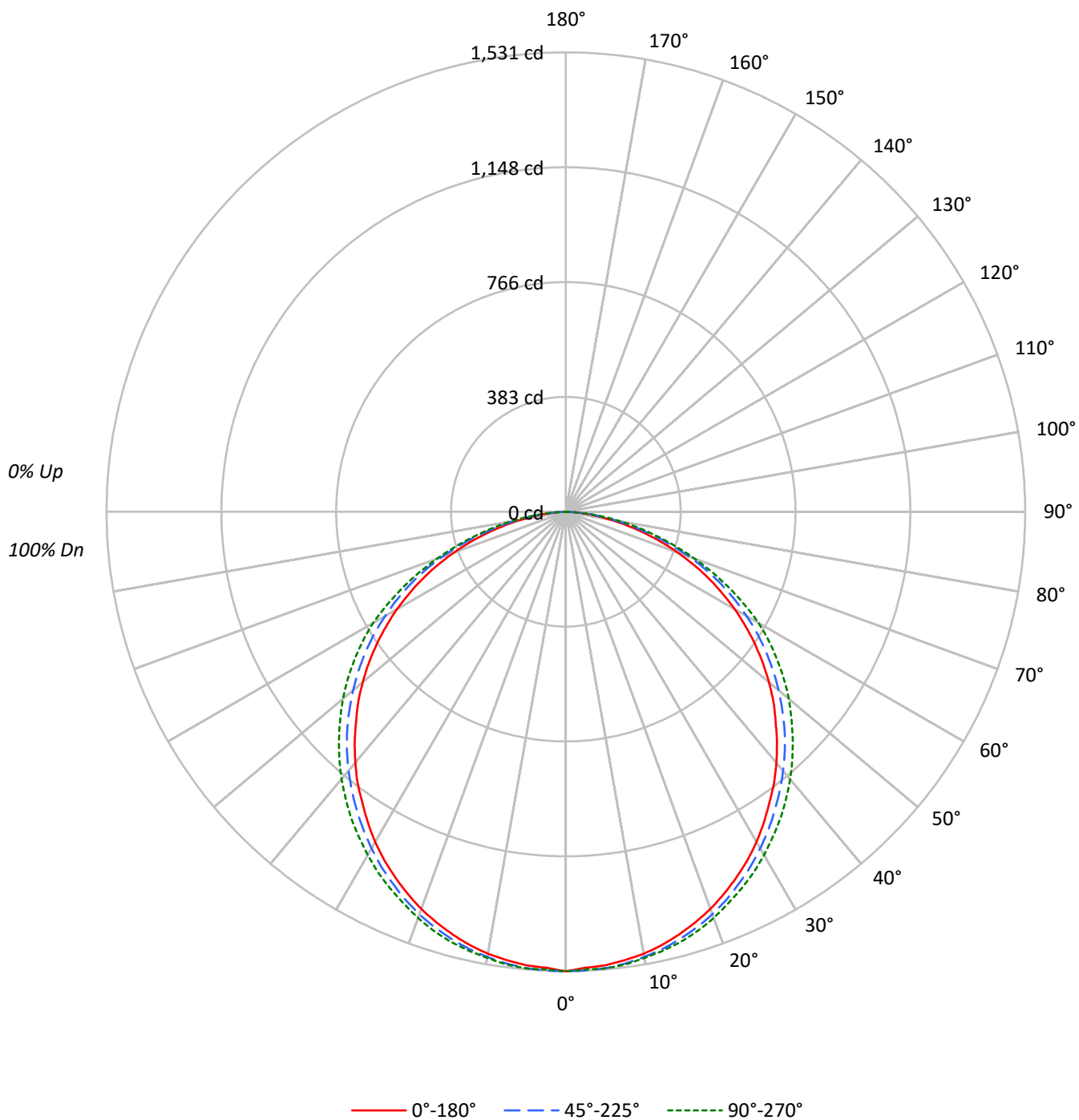
Lumens per Lamp: N/A
Luminaire Lumens: 4427.0 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	86	86	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	72	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	60	60	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	52	52	50
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	45	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	39	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	35	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5160	5160	5160
5°	5131	5164	5168
10°	5117	5155	5166
15°	5087	5140	5176
20°	5052	5119	5166
25°	5000	5080	5150
30°	4944	5040	5139
35°	4865	4996	5130
40°	4801	4956	5116
45°	4711	4913	5096
50°	4632	4854	5086
55°	4521	4785	5053
60°	4382	4690	5002
65°	4187	4561	4795
70°	3903	4307	4500
75°	3487	3885	4106
80°	2858	3276	3592
85°	1914	2393	2672

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5096 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	3.3
10°-20°	415.8	9.4
20°-30°	629.6	14.2
30°-40°	760.3	17.2
40°-50°	794.5	17.9
50°-60°	728.1	16.4
60°-70°	562.0	12.7
70°-80°	316.1	7.1
80°-90°	75.6	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°	1190.4	26.9
0°-40°	1950.6	44.1
0°-60°	3473.2	78.5
0°-90°	4427.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4427.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1531	1531	1531	1531	1531	
5°	1517	1528	1527	1528	1528	144
15°	1458	1470	1473	1479	1484	412
25°	1345	1357	1366	1374	1385	620
35°	1183	1198	1215	1231	1247	741
45°	988	1008	1031	1052	1069	764
55°	770	790	814	840	860	688
65°	525	548	572	595	601	519
75°	268	293	298	311	315	284
85°	50	57	62	68	69	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1531.3	1531.3	1531.3	1531.3	1531.3
2.5°	1520.9	1532.6	1530.0	1533.9	1526.7
5°	1517.0	1528.0	1526.7	1528.0	1528.0
7.5°	1507.2	1518.9	1518.3	1520.2	1521.5
10°	1495.5	1506.5	1506.5	1508.5	1509.8
12.5°	1479.2	1490.9	1492.2	1495.5	1498.1
15°	1458.3	1470.1	1473.3	1479.2	1483.7
17.5°	1434.9	1447.2	1452.5	1458.3	1464.2
20°	1408.8	1419.9	1427.7	1432.3	1440.7
22.5°	1378.2	1390.6	1399.0	1403.6	1412.7
25°	1344.9	1356.7	1366.4	1373.6	1385.3
27.5°	1309.8	1321.5	1333.2	1341.7	1355.4
30°	1270.7	1283.0	1295.4	1308.4	1320.8
32.5°	1228.3	1242.6	1256.3	1270.7	1284.3
35°	1182.7	1197.7	1214.6	1230.9	1247.2
37.5°	1140.3	1154.0	1171.6	1189.2	1205.5
40°	1091.5	1106.4	1126.6	1146.2	1163.1
42.5°	1041.9	1058.2	1080.4	1099.3	1117.5
45°	988.5	1008.1	1030.9	1051.7	1069.3
47.5°	939.0	955.9	978.7	1001.5	1019.8
50°	883.6	902.5	925.9	950.1	970.3
52.5°	827.6	847.1	871.2	895.3	916.2
55°	769.6	789.8	814.5	839.9	860.1
57.5°	710.3	731.8	757.2	782.6	802.8
60°	650.3	671.8	695.9	723.9	742.2
62.5°	587.8	611.9	634.7	660.7	671.8
65°	525.2	548.0	572.1	594.9	601.4
67.5°	461.3	484.8	506.3	521.3	529.8
70°	396.2	421.6	437.2	451.6	456.8
72.5°	331.7	357.1	366.2	379.9	385.1
75°	267.8	292.6	298.4	310.8	315.4
77.5°	205.9	228.7	230.7	245.0	248.9
80°	147.3	165.5	168.8	182.5	185.1
82.5°	94.5	107.5	112.1	123.8	127.7
85°	49.5	56.7	61.9	67.8	69.1
87.5°	16.3	20.2	16.9	17.6	16.3
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	17.41	19.06	17.78	19.38	19.69	17.95	19.60	18.32	19.92	20.23
	3H	19.19	20.68	19.57	21.01	21.37	19.81	21.30	20.19	21.63	21.99
	4H	19.82	21.22	20.21	21.57	21.95	20.48	21.89	20.88	22.23	22.61
	6H	20.22	21.53	20.63	21.89	22.28	20.96	22.26	21.37	22.62	23.01
	8H	20.33	21.57	20.75	21.96	22.36	21.10	22.35	21.53	22.74	23.14
	12H	20.38	21.57	20.81	21.95	22.38	21.18	22.38	21.61	22.76	23.19
4H	2H	18.14	19.54	18.54	19.89	20.27	18.56	19.97	18.96	20.31	20.69
	3H	20.13	21.31	20.54	21.71	22.11	20.63	21.81	21.04	22.21	22.61
	4H	20.89	21.96	21.32	22.37	22.81	21.43	22.50	21.86	22.91	23.34
	6H	21.42	22.35	21.87	22.79	23.25	22.03	22.96	22.48	23.40	23.86
	8H	21.56	22.43	22.02	22.87	23.34	22.22	23.10	22.68	23.54	24.00
	12H	21.64	22.42	22.12	22.90	23.36	22.34	23.13	22.82	23.60	24.07
8H	4H	21.23	22.10	21.69	22.54	23.01	21.70	22.58	22.16	23.02	23.48
	6H	21.87	22.59	22.36	23.08	23.56	22.42	23.14	22.91	23.63	24.10
	8H	22.07	22.72	22.58	23.22	23.71	22.67	23.32	23.18	23.83	24.32
	12H	22.20	22.77	22.70	23.26	23.82	22.86	23.43	23.36	23.92	24.48
12H	4H	21.26	22.05	21.74	22.52	22.99	21.73	22.51	22.21	22.99	23.46
	6H	21.92	22.57	22.43	23.08	23.57	22.45	23.11	22.96	23.61	24.10
	8H	22.17	22.75	22.68	23.24	23.80	22.76	23.34	23.27	23.83	24.39