

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: P1584369

Luminaire Tested: 14CZSP-52-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584369
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-L945
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 4500 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

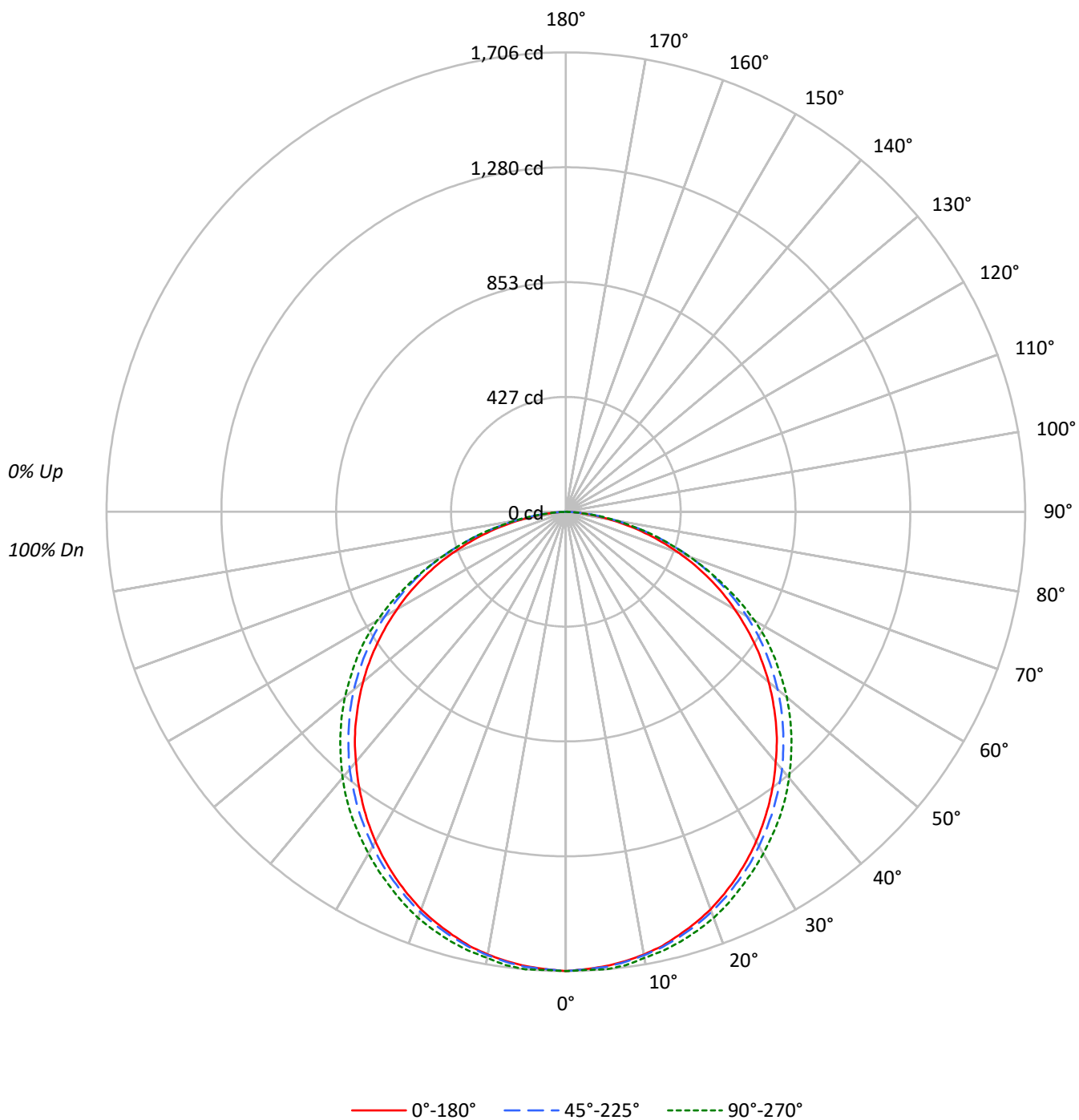
Lumens per Lamp: N/A
Luminaire Lumens: 4922.0 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5748	5748	5748
5°	5730	5740	5770
10°	5712	5722	5757
15°	5676	5701	5762
20°	5635	5672	5756
25°	5572	5626	5724
30°	5502	5581	5706
35°	5420	5534	5696
40°	5334	5494	5674
45°	5257	5438	5646
50°	5156	5385	5615
55°	5032	5315	5563
60°	4878	5232	5458
65°	4689	5084	5189
70°	4399	4830	4830
75°	3951	4389	4407
80°	3256	3710	3710
85°	2258	2706	2370

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5646 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.6	3.3
10°-20°	462.8	9.4
20°-30°	700.4	14.2
30°-40°	845.5	17.2
40°-50°	883.4	17.9
50°-60°	809.2	16.4
60°-70°	623.9	12.7
70°-80°	352.0	7.2
80°-90°	83.3	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°	1324.7	26.9
0°-40°	2170.2	44.1
0°-60°	3862.8	78.5
0°-90°	4922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4922.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1706	1706	1706	1706	1706	
5°	1694	1706	1697	1700	1706	161
15°	1627	1637	1634	1647	1652	459
25°	1499	1512	1513	1534	1540	690
35°	1318	1335	1345	1375	1385	824
45°	1103	1122	1141	1175	1185	850
55°	857	878	905	938	947	765
65°	588	607	638	660	651	581
75°	304	327	337	346	338	322
85°	58	66	70	74	61	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1705.8	1705.8	1705.8	1705.8	1705.8
2.5°	1700.0	1711.6	1700.0	1705.8	1702.9
5°	1694.1	1705.8	1697.1	1700.0	1705.8
7.5°	1683.9	1695.6	1686.8	1691.2	1698.5
10°	1669.3	1681.0	1672.2	1679.5	1682.5
12.5°	1651.8	1662.0	1656.2	1664.9	1669.3
15°	1627.0	1637.2	1634.3	1647.4	1651.8
17.5°	1600.7	1612.4	1609.5	1625.6	1629.9
20°	1571.6	1581.8	1581.8	1596.4	1605.1
22.5°	1536.5	1548.2	1549.7	1565.7	1574.5
25°	1498.6	1511.7	1513.2	1533.6	1539.5
27.5°	1457.7	1470.9	1476.7	1498.6	1504.4
30°	1414.0	1427.1	1434.4	1459.2	1466.5
32.5°	1367.3	1383.3	1390.6	1418.3	1425.6
35°	1317.7	1335.2	1345.4	1374.6	1384.8
37.5°	1266.6	1284.1	1297.2	1327.9	1339.5
40°	1212.6	1231.6	1249.1	1279.7	1289.9
42.5°	1160.1	1179.0	1195.1	1227.2	1237.4
45°	1103.2	1122.1	1141.1	1174.7	1184.9
47.5°	1043.3	1063.8	1085.6	1116.3	1129.4
50°	983.5	1003.9	1027.3	1059.4	1071.1
52.5°	920.8	942.6	966.0	999.6	1008.3
55°	856.6	878.4	904.7	938.3	947.0
57.5°	790.9	814.2	842.0	874.1	882.8
60°	723.8	747.1	776.3	806.9	809.9
62.5°	658.1	678.5	707.7	736.9	732.5
65°	588.1	607.0	637.7	659.6	650.8
67.5°	518.0	538.4	566.2	582.2	570.5
70°	446.5	468.4	490.3	502.0	490.3
72.5°	375.0	398.4	414.4	421.7	411.5
75°	303.5	326.9	337.1	345.8	338.5
77.5°	234.9	256.8	261.2	271.4	261.2
80°	167.8	188.2	191.2	201.4	191.2
82.5°	108.0	121.1	127.0	135.7	125.5
85°	58.4	65.7	70.0	74.4	61.3
87.5°	20.4	23.3	20.4	17.5	7.3
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	17.79	19.44	18.15	19.75	20.07	18.33	19.98	18.70	20.30	20.61
	3H	19.58	21.07	19.95	21.40	21.75	20.14	21.63	20.52	21.96	22.32
	4H	20.22	21.62	20.61	21.97	22.34	20.79	22.19	21.18	22.54	22.91
	6H	20.64	21.94	21.05	22.31	22.70	21.22	22.53	21.64	22.89	23.28
	8H	20.75	21.99	21.17	22.38	22.78	21.35	22.59	21.77	22.98	23.38
	12H	20.80	22.00	21.23	22.38	22.81	21.40	22.60	21.83	22.98	23.41
4H	2H	18.52	19.92	18.91	20.27	20.64	18.94	20.35	19.34	20.69	21.07
	3H	20.52	21.70	20.93	22.10	22.50	20.98	22.16	21.39	22.55	22.95
	4H	21.29	22.36	21.72	22.77	23.21	21.76	22.82	22.19	23.24	23.67
	6H	21.83	22.77	22.29	23.21	23.66	22.32	23.26	22.78	23.70	24.15
	8H	21.98	22.85	22.44	23.29	23.76	22.49	23.36	22.95	23.81	24.27
	12H	22.06	22.85	22.54	23.32	23.79	22.58	23.37	23.06	23.84	24.31
8H	4H	21.63	22.51	22.09	22.95	23.41	22.04	22.92	22.50	23.36	23.82
	6H	22.29	23.02	22.78	23.50	23.98	22.73	23.45	23.22	23.94	24.41
	8H	22.50	23.15	23.01	23.65	24.14	22.96	23.61	23.47	24.12	24.60
	12H	22.63	23.21	23.14	23.70	24.26	23.11	23.69	23.62	24.18	24.74
12H	4H	21.67	22.45	22.15	22.93	23.40	22.07	22.86	22.55	23.33	23.80
	6H	22.35	23.00	22.86	23.50	23.99	22.77	23.42	23.28	23.93	24.41
	8H	22.60	23.18	23.11	23.67	24.23	23.05	23.63	23.56	24.12	24.68