

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: P1584366

Luminaire Tested: 14CZSP-52-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584366
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-L940-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 4500 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

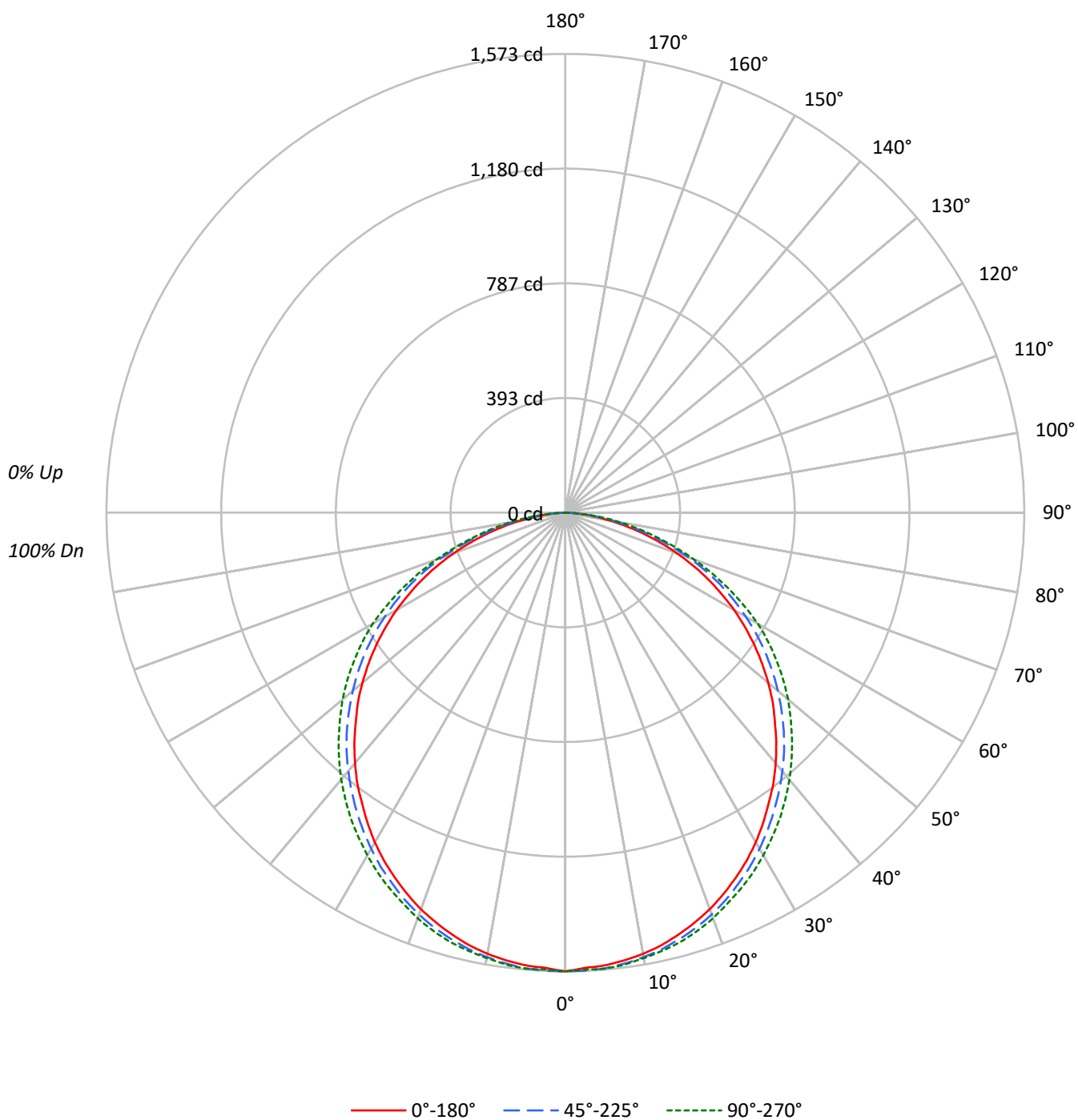
Lumens per Lamp: N/A
Luminaire Lumens: 4548.0 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	52		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	28		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°	5301	5301	5301
5°	5271	5305	5310
10°	5257	5296	5307
15°	5226	5280	5317
20°	5190	5259	5307
25°	5137	5219	5291
30°	5079	5178	5279
35°	4998	5133	5271
40°	4932	5091	5256
45°	4839	5046	5235
50°	4758	4987	5225
55°	4645	4916	5191
60°	4502	4818	5139
65°	4302	4687	4927
70°	4010	4426	4624
75°	3582	3992	4218
80°	2936	3365	3689
85°	1968	2459	2745

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5235 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	3.3
10°-20°	427.1	9.4
20°-30°	646.8	14.2
30°-40°	781.0	17.2
40°-50°	816.2	17.9
50°-60°	748.0	16.4
60°-70°	577.4	12.7
70°-80°	324.8	7.1
80°-90°	77.7	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°	1222.9	26.9
0°-40°	2003.9	44.1
0°-60°	3568.2	78.5
0°-90°	4548.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4548.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1573	1573	1573	1573	1573	
5°	1558	1570	1568	1570	1570	148
15°	1498	1510	1514	1520	1524	423
25°	1382	1394	1404	1411	1423	637
35°	1215	1230	1248	1265	1281	761
45°	1016	1036	1059	1080	1098	785
55°	791	811	837	863	884	706
65°	540	563	588	611	618	533
75°	275	301	307	319	324	292
85°	51	58	64	70	71	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1573.2	1573.2	1573.2	1573.2	1573.2
2.5°	1562.4	1574.5	1571.8	1575.8	1568.5
5°	1558.4	1569.8	1568.5	1569.8	1569.8
7.5°	1548.4	1560.4	1559.8	1561.8	1563.1
10°	1536.3	1547.7	1547.7	1549.7	1551.1
12.5°	1519.6	1531.7	1533.0	1536.3	1539.0
15°	1498.2	1510.2	1513.6	1519.6	1524.3
17.5°	1474.1	1486.8	1492.2	1498.2	1504.2
20°	1447.3	1458.7	1466.7	1471.4	1480.1
22.5°	1415.8	1428.6	1437.3	1441.9	1451.3
25°	1381.7	1393.8	1403.8	1411.2	1423.2
27.5°	1345.6	1357.6	1369.7	1378.4	1392.4
30°	1305.4	1318.1	1330.8	1344.2	1356.9
32.5°	1261.9	1276.6	1290.7	1305.4	1319.4
35°	1215.0	1230.4	1247.8	1264.6	1281.3
37.5°	1171.5	1185.6	1203.6	1221.7	1238.4
40°	1121.3	1136.7	1157.4	1177.5	1194.9
42.5°	1070.4	1087.2	1109.9	1129.3	1148.1
45°	1015.5	1035.6	1059.0	1080.5	1098.5
47.5°	964.6	982.1	1005.5	1028.9	1047.7
50°	907.7	927.2	951.3	976.0	996.8
52.5°	850.2	870.3	895.0	919.8	941.2
55°	790.6	811.3	836.8	862.9	883.6
57.5°	729.7	751.8	777.9	804.0	824.7
60°	668.1	690.2	714.9	743.7	762.5
62.5°	603.8	628.6	652.0	678.8	690.2
65°	539.6	563.0	587.8	611.2	617.9
67.5°	474.0	498.1	520.1	535.5	544.2
70°	407.0	433.1	449.2	463.9	469.3
72.5°	340.7	366.8	376.2	390.3	395.6
75°	275.1	300.6	306.6	319.3	324.0
77.5°	211.5	235.0	237.0	251.7	255.7
80°	151.3	170.0	173.4	187.4	190.1
82.5°	97.1	110.5	115.1	127.2	131.2
85°	50.9	58.2	63.6	69.6	71.0
87.5°	16.7	20.8	17.4	18.1	16.7
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	17.51	19.16	17.87	19.47	19.79	18.05	19.70	18.41	20.01	20.33
	3H	19.28	20.78	19.66	21.10	21.46	19.90	21.40	20.28	21.72	22.08
	4H	19.91	21.32	20.31	21.66	22.04	20.57	21.98	20.97	22.33	22.70
	6H	20.32	21.62	20.73	21.99	22.38	21.05	22.35	21.46	22.72	23.11
	8H	20.42	21.67	20.85	22.06	22.45	21.20	22.44	21.62	22.83	23.23
	12H	20.47	21.67	20.90	22.05	22.48	21.28	22.47	21.71	22.85	23.28
4H	2H	18.23	19.64	18.63	19.99	20.36	18.65	20.06	19.05	20.41	20.78
	3H	20.23	21.41	20.64	21.80	22.20	20.73	21.91	21.13	22.30	22.70
	4H	20.98	22.05	21.41	22.46	22.90	21.52	22.59	21.95	23.00	23.44
	6H	21.51	22.44	21.96	22.89	23.34	22.12	23.06	22.58	23.50	23.95
	8H	21.65	22.52	22.11	22.97	23.43	22.32	23.19	22.77	23.63	24.10
	12H	21.73	22.51	22.21	22.99	23.46	22.44	23.22	22.92	23.70	24.17
8H	4H	21.32	22.19	21.78	22.64	23.10	21.80	22.67	22.26	23.11	23.58
	6H	21.96	22.69	22.45	23.17	23.65	22.51	23.24	23.00	23.72	24.20
	8H	22.16	22.81	22.67	23.32	23.80	22.77	23.42	23.28	23.92	24.41
	12H	22.29	22.87	22.80	23.36	23.92	22.95	23.52	23.46	24.01	24.57
12H	4H	21.36	22.14	21.84	22.62	23.09	21.82	22.61	22.30	23.08	23.55
	6H	22.02	22.67	22.52	23.17	23.66	22.55	23.20	23.05	23.70	24.19
	8H	22.27	22.84	22.77	23.33	23.89	22.85	23.43	23.36	23.92	24.48