

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: P1584688

Luminaire Tested: 14CZSP-A-54HE-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584688
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-A-54HE-L945-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 5000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

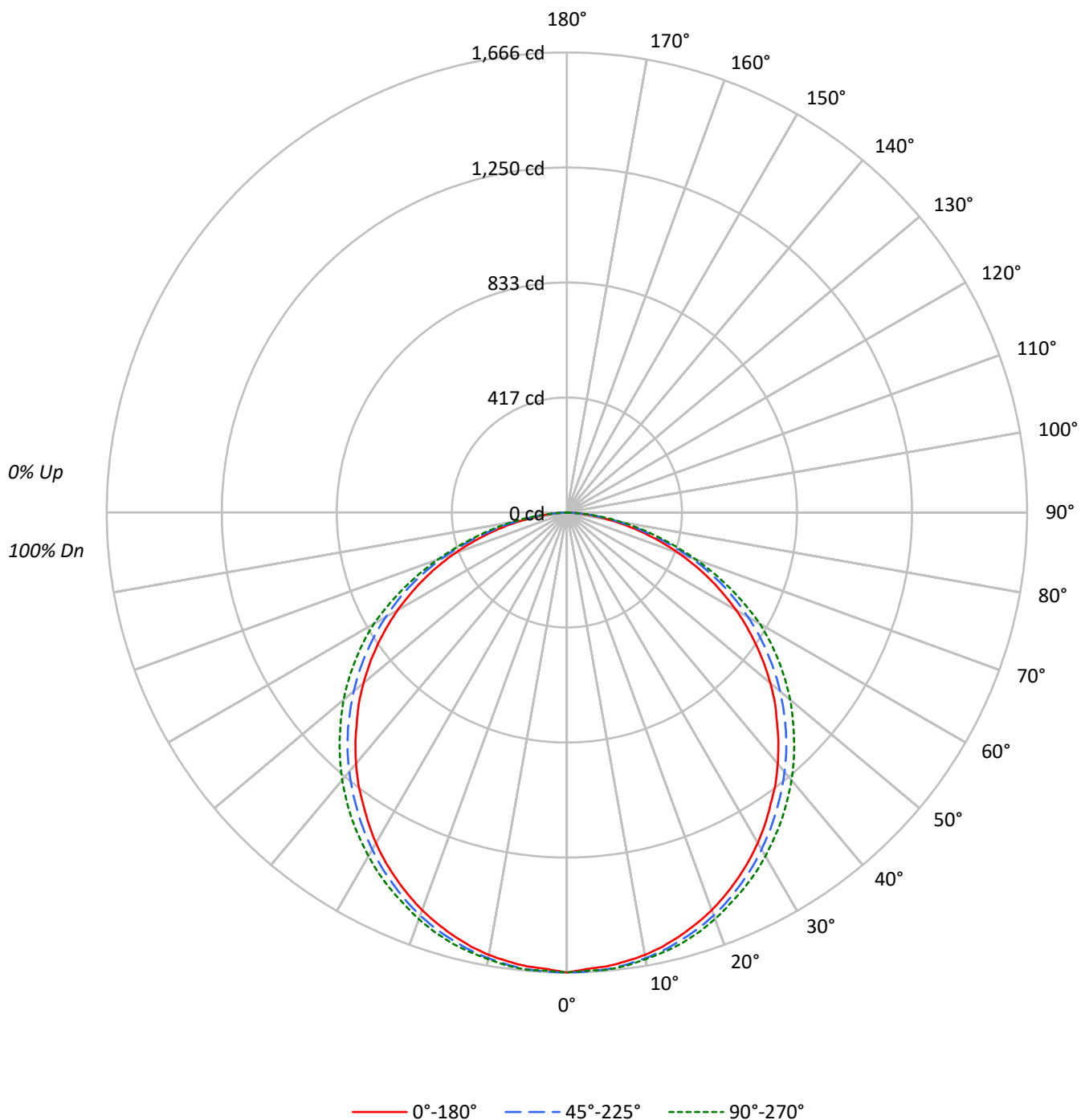
Lumens per Lamp: N/A
Luminaire Lumens: 4816.0 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.3
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°	5613	5613	5613
5°	5582	5618	5623
10°	5567	5608	5620
15°	5534	5591	5631
20°	5496	5569	5620
25°	5440	5527	5603
30°	5378	5483	5591
35°	5292	5435	5581
40°	5223	5391	5566
45°	5125	5344	5543
50°	5039	5280	5533
55°	4918	5206	5497
60°	4768	5102	5441
65°	4556	4962	5217
70°	4246	4687	4895
75°	3792	4227	4467
80°	3109	3563	3906
85°	2084	2602	2903

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5543 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.8	3.3
10°-20°	452.3	9.4
20°-30°	684.9	14.2
30°-40°	827.1	17.2
40°-50°	864.3	17.9
50°-60°	792.0	16.4
60°-70°	611.4	12.7
70°-80°	343.9	7.1
80°-90°	82.3	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°	1295.0	26.9
0°-40°	2122.0	44.1
0°-60°	3778.4	78.5
0°-90°	4816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4816.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1666	1666	1666	1666	1666	
5°	1650	1662	1661	1662	1662	157
15°	1586	1599	1603	1609	1614	448
25°	1463	1476	1486	1494	1507	674
35°	1287	1303	1321	1339	1357	806
45°	1075	1097	1121	1144	1163	831
55°	837	859	886	914	936	748
65°	571	596	622	647	654	565
75°	291	318	325	338	343	309
85°	54	62	67	74	75	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1665.9	1665.9	1665.9	1665.9	1665.9
2.5°	1654.5	1667.3	1664.4	1668.7	1660.9
5°	1650.3	1662.3	1660.9	1662.3	1662.3
7.5°	1639.6	1652.4	1651.7	1653.8	1655.2
10°	1626.9	1638.9	1638.9	1641.0	1642.5
12.5°	1609.1	1621.9	1623.3	1626.9	1629.7
15°	1586.5	1599.2	1602.8	1609.1	1614.1
17.5°	1560.9	1574.4	1580.1	1586.5	1592.8
20°	1532.6	1544.6	1553.1	1558.1	1567.3
22.5°	1499.3	1512.7	1522.0	1526.9	1536.8
25°	1463.1	1475.9	1486.5	1494.3	1507.1
27.5°	1424.8	1437.6	1450.4	1459.6	1474.5
30°	1382.3	1395.8	1409.2	1423.4	1436.9
32.5°	1336.2	1351.8	1366.7	1382.3	1397.2
35°	1286.6	1302.9	1321.3	1339.1	1356.8
37.5°	1240.5	1255.4	1274.6	1293.7	1311.4
40°	1187.4	1203.7	1225.6	1246.9	1265.3
42.5°	1133.5	1151.2	1175.3	1195.9	1215.7
45°	1075.4	1096.6	1121.4	1144.1	1163.3
47.5°	1021.5	1039.9	1064.7	1089.5	1109.4
50°	961.2	981.8	1007.3	1033.5	1055.5
52.5°	900.3	921.5	947.8	974.0	996.7
55°	837.2	859.2	886.1	913.7	935.7
57.5°	772.7	796.1	823.7	851.4	873.3
60°	707.5	730.9	757.1	787.6	807.4
62.5°	639.4	665.6	690.4	718.8	730.9
65°	571.4	596.2	622.4	647.2	654.3
67.5°	501.9	527.4	550.8	567.1	576.3
70°	431.0	458.6	475.7	491.3	496.9
72.5°	360.8	388.5	398.4	413.3	418.9
75°	291.3	318.3	324.7	338.1	343.1
77.5°	224.0	248.8	250.9	266.5	270.8
80°	160.2	180.1	183.6	198.5	201.3
82.5°	102.8	117.0	121.9	134.7	138.9
85°	53.9	61.7	67.3	73.7	75.1
87.5°	17.7	22.0	18.4	19.1	17.7
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	17.71	19.36	18.07	19.67	19.98	18.25	19.90	18.61	20.21	20.52
	3H	19.48	20.98	19.86	21.30	21.66	20.10	21.60	20.48	21.92	22.28
	4H	20.11	21.52	20.51	21.86	22.24	20.77	22.18	21.17	22.53	22.90
	6H	20.52	21.82	20.93	22.19	22.58	21.25	22.55	21.66	22.92	23.31
	8H	20.62	21.87	21.04	22.26	22.65	21.39	22.64	21.82	23.03	23.43
	12H	20.67	21.86	21.10	22.25	22.67	21.48	22.67	21.91	23.05	23.48
4H	2H	18.43	19.84	18.83	20.19	20.56	18.85	20.26	19.25	20.61	20.98
	3H	20.42	21.61	20.83	22.00	22.40	20.92	22.11	21.33	22.50	22.90
	4H	21.18	22.25	21.61	22.66	23.10	21.72	22.79	22.15	23.20	23.64
	6H	21.71	22.64	22.16	23.08	23.54	22.32	23.26	22.78	23.70	24.15
	8H	21.85	22.72	22.31	23.17	23.63	22.51	23.39	22.97	23.83	24.29
	12H	21.93	22.71	22.41	23.19	23.66	22.64	23.42	23.11	23.90	24.36
8H	4H	21.52	22.39	21.98	22.83	23.30	22.00	22.87	22.46	23.31	23.78
	6H	22.16	22.89	22.65	23.37	23.85	22.71	23.44	23.20	23.92	24.40
	8H	22.36	23.01	22.87	23.52	24.00	22.97	23.62	23.47	24.12	24.61
	12H	22.49	23.06	23.00	23.55	24.11	23.15	23.72	23.65	24.21	24.77
12H	4H	21.56	22.34	22.04	22.82	23.29	22.02	22.81	22.50	23.28	23.75
	6H	22.21	22.87	22.72	23.37	23.86	22.75	23.40	23.25	23.90	24.39
	8H	22.47	23.04	22.97	23.53	24.09	23.05	23.63	23.56	24.12	24.68