

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: P1584690

Luminaire Tested: 14CZSP-A-54HE-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584690
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-L950-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

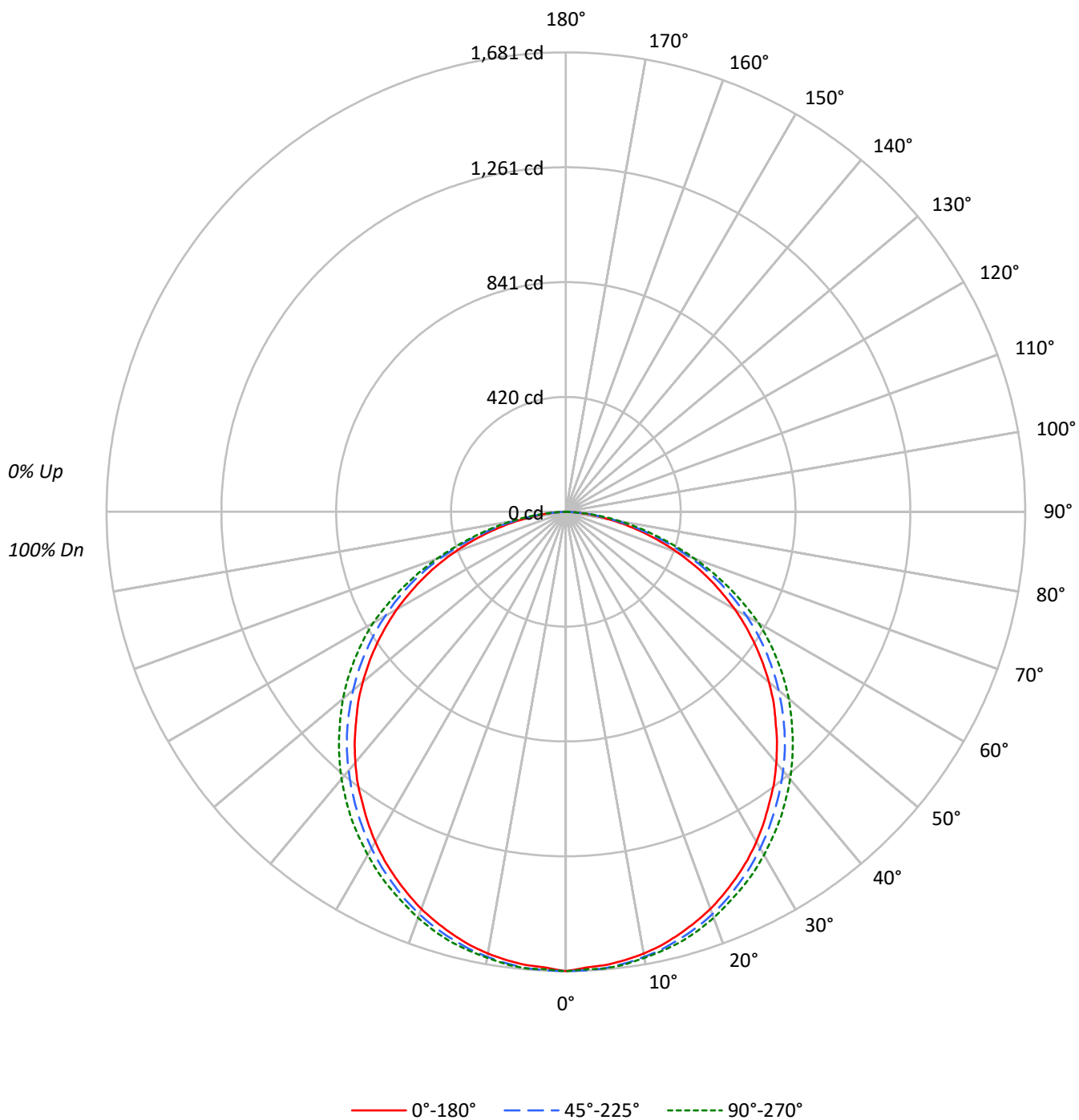
Lumens per Lamp: N/A
Luminaire Lumens: 4860.0 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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			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	52		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	28		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°	5665	5665	5665
5°	5633	5669	5674
10°	5617	5659	5671
15°	5585	5642	5682
20°	5546	5620	5671
25°	5490	5577	5654
30°	5427	5533	5642
35°	5341	5485	5632
40°	5270	5440	5617
45°	5171	5393	5594
50°	5085	5329	5584
55°	4963	5253	5547
60°	4811	5149	5491
65°	4597	5008	5265
70°	4285	4729	4941
75°	3828	4265	4507
80°	3138	3596	3943
85°	2103	2629	2931

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5594 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	3.3
10°-20°	456.4	9.4
20°-30°	691.1	14.2
30°-40°	834.6	17.2
40°-50°	872.2	17.9
50°-60°	799.3	16.4
60°-70°	617.0	12.7
70°-80°	347.1	7.1
80°-90°	83.0	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°	1306.8	26.9
0°-40°	2141.4	44.1
0°-60°	3812.9	78.5
0°-90°	4860.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4860.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1681	1681	1681	1681	1681	
5°	1665	1678	1676	1678	1678	158
15°	1601	1614	1617	1624	1629	452
25°	1476	1489	1500	1508	1521	680
35°	1298	1315	1333	1351	1369	814
45°	1085	1107	1132	1155	1174	839
55°	845	867	894	922	944	755
65°	577	602	628	653	660	570
75°	294	321	328	341	346	312
85°	54	62	68	74	76	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1681.1	1681.1	1681.1	1681.1	1681.1
2.5°	1669.6	1682.5	1679.6	1683.9	1676.1
5°	1665.3	1677.5	1676.1	1677.5	1677.5
7.5°	1654.6	1667.5	1666.8	1668.9	1670.3
10°	1641.7	1653.9	1653.9	1656.0	1657.5
12.5°	1623.8	1636.7	1638.2	1641.7	1644.6
15°	1601.0	1613.8	1617.4	1623.8	1628.9
17.5°	1575.2	1588.8	1594.5	1601.0	1607.4
20°	1546.6	1558.8	1567.3	1572.3	1581.6
22.5°	1513.0	1526.6	1535.9	1540.9	1550.9
25°	1476.5	1489.4	1500.1	1508.0	1520.8
27.5°	1437.9	1450.7	1463.6	1472.9	1487.9
30°	1394.9	1408.5	1422.1	1436.4	1450.0
32.5°	1348.4	1364.2	1379.2	1394.9	1410.0
35°	1298.4	1314.8	1333.4	1351.3	1369.2
37.5°	1251.9	1266.9	1286.2	1305.5	1323.4
40°	1198.2	1214.7	1236.8	1258.3	1276.9
42.5°	1143.8	1161.7	1186.1	1206.8	1226.8
45°	1085.2	1106.7	1131.7	1154.6	1173.9
47.5°	1030.8	1049.4	1074.5	1099.5	1119.5
50°	970.0	990.8	1016.5	1043.0	1065.2
52.5°	908.5	930.0	956.4	982.9	1005.8
55°	844.8	867.0	894.2	922.1	944.3
57.5°	779.7	803.3	831.2	859.1	881.3
60°	713.9	737.5	764.0	794.8	814.8
62.5°	645.2	671.7	696.8	725.4	737.5
65°	576.6	601.6	628.1	653.1	660.3
67.5°	506.5	532.2	555.8	572.3	581.6
70°	434.9	462.8	480.0	495.7	501.5
72.5°	364.1	392.0	402.0	417.1	422.8
75°	294.0	321.2	327.6	341.2	346.2
77.5°	226.1	251.1	253.2	269.0	273.3
80°	161.7	181.7	185.3	200.3	203.2
82.5°	103.7	118.0	123.0	135.9	140.2
85°	54.4	62.2	68.0	74.4	75.8
87.5°	17.9	22.2	18.6	19.3	17.9
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	17.74	19.39	18.10	19.70	20.02	18.28	19.93	18.64	20.24	20.56
	3H	19.51	21.01	19.89	21.33	21.69	20.13	21.63	20.51	21.95	22.31
	4H	20.14	21.55	20.54	21.89	22.27	20.80	22.21	21.20	22.56	22.93
	6H	20.55	21.85	20.96	22.22	22.61	21.28	22.58	21.69	22.95	23.34
	8H	20.65	21.90	21.08	22.29	22.69	21.43	22.67	21.85	23.06	23.46
	12H	20.70	21.90	21.13	22.28	22.71	21.51	22.70	21.94	23.08	23.51
4H	2H	18.46	19.87	18.86	20.22	20.59	18.88	20.29	19.28	20.64	21.01
	3H	20.46	21.64	20.87	22.03	22.43	20.96	22.14	21.36	22.53	22.93
	4H	21.21	22.28	21.64	22.69	23.13	21.75	22.82	22.18	23.23	23.67
	6H	21.74	22.68	22.19	23.12	23.57	22.35	23.29	22.81	23.73	24.18
	8H	21.88	22.75	22.34	23.20	23.66	22.55	23.42	23.01	23.86	24.33
	12H	21.96	22.75	22.44	23.22	23.69	22.67	23.45	23.15	23.93	24.40
8H	4H	21.55	22.42	22.01	22.87	23.33	22.03	22.90	22.49	23.34	23.81
	6H	22.19	22.92	22.68	23.40	23.88	22.74	23.47	23.23	23.95	24.43
	8H	22.39	23.04	22.90	23.55	24.03	23.00	23.65	23.51	24.15	24.64
	12H	22.52	23.10	23.03	23.59	24.15	23.18	23.75	23.69	24.24	24.80
12H	4H	21.59	22.37	22.07	22.85	23.32	22.05	22.84	22.53	23.31	23.78
	6H	22.25	22.90	22.75	23.40	23.89	22.78	23.43	23.29	23.94	24.42
	8H	22.50	23.07	23.00	23.56	24.12	23.09	23.66	23.59	24.15	24.71