

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: P1584692

Luminaire Tested: 14CZSP-A-54VHE-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584692
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-54VHE-L830-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 5200 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

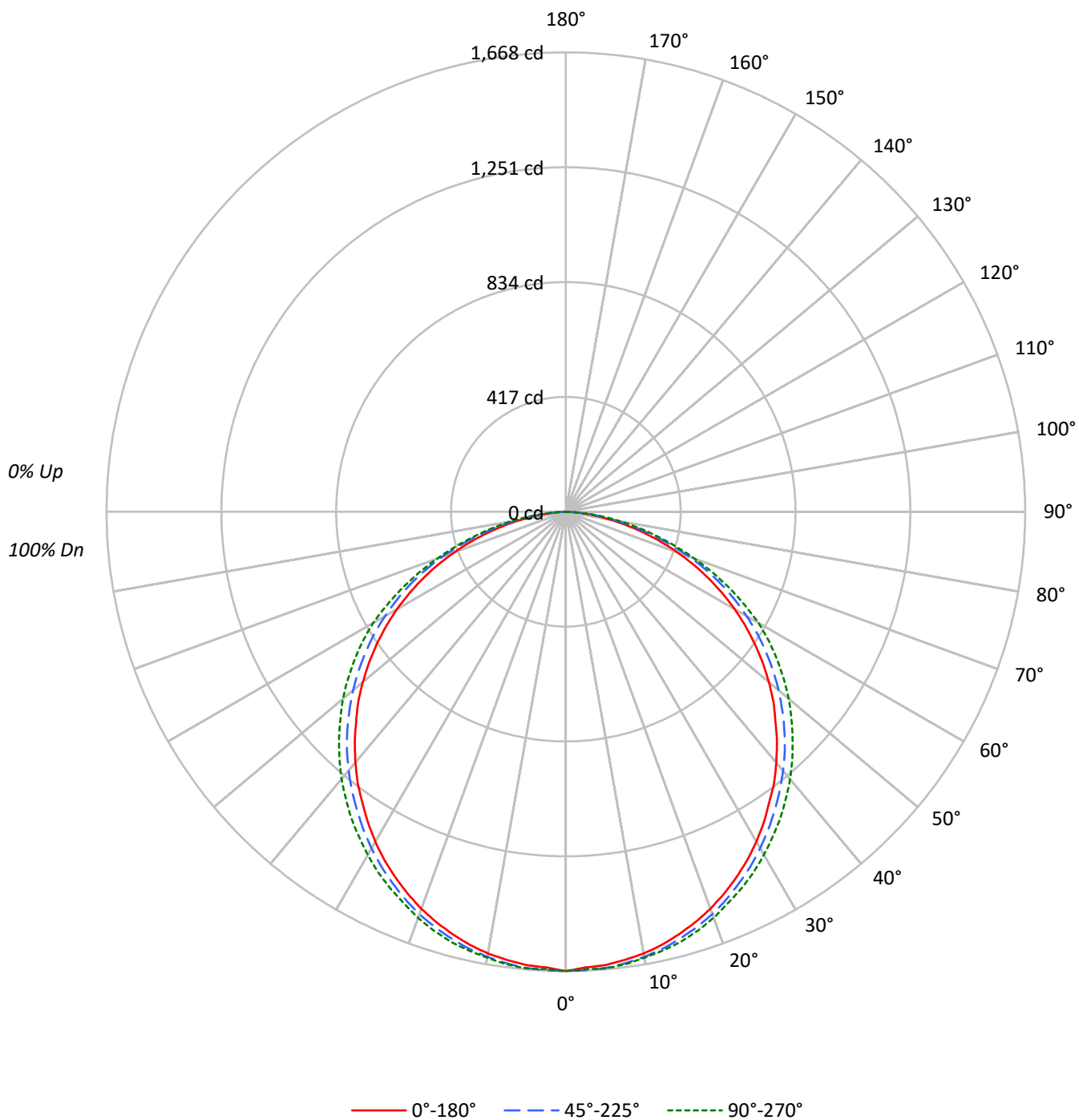
Lumens per Lamp: N/A
Luminaire Lumens: 4821.0 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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°	5619	5619	5619
5°	5588	5624	5628
10°	5572	5613	5626
15°	5540	5597	5637
20°	5501	5575	5626
25°	5445	5533	5609
30°	5384	5489	5597
35°	5298	5441	5587
40°	5228	5397	5572
45°	5130	5350	5549
50°	5044	5286	5539
55°	4924	5211	5503
60°	4773	5108	5447
65°	4560	4967	5222
70°	4250	4691	4900
75°	3798	4231	4472
80°	3113	3567	3910
85°	2084	2606	2907

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5549 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.9	3.3
10°-20°	452.8	9.4
20°-30°	685.6	14.2
30°-40°	827.9	17.2
40°-50°	865.2	17.9
50°-60°	792.9	16.4
60°-70°	612.0	12.7
70°-80°	344.3	7.1
80°-90°	82.4	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°	1296.3	26.9
0°-40°	2124.2	44.1
0°-60°	3782.3	78.5
0°-90°	4821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4821.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1668	1668	1668	1668	1668	
5°	1652	1664	1663	1664	1664	157
15°	1588	1601	1604	1611	1616	448
25°	1465	1477	1488	1496	1509	675
35°	1288	1304	1323	1340	1358	807
45°	1076	1098	1123	1145	1164	832
55°	838	860	887	915	937	749
65°	572	597	623	648	655	565
75°	292	319	325	338	344	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°	1667.6	1667.6	1667.6	1667.6	1667.6
2.5°	1656.2	1669.0	1666.2	1670.4	1662.6
5°	1652.0	1664.0	1662.6	1664.0	1664.0
7.5°	1641.3	1654.1	1653.4	1655.5	1656.9
10°	1628.6	1640.6	1640.6	1642.8	1644.2
12.5°	1610.8	1623.6	1625.0	1628.6	1631.4
15°	1588.1	1600.9	1604.4	1610.8	1615.8
17.5°	1562.6	1576.0	1581.7	1588.1	1594.5
20°	1534.2	1546.2	1554.8	1559.7	1569.0
22.5°	1500.8	1514.3	1523.5	1528.5	1538.4
25°	1464.6	1477.4	1488.1	1495.9	1508.6
27.5°	1426.3	1439.1	1451.9	1461.1	1476.0
30°	1383.7	1397.2	1410.7	1424.9	1438.4
32.5°	1337.6	1353.2	1368.1	1383.7	1398.6
35°	1287.9	1304.3	1322.7	1340.5	1358.2
37.5°	1241.8	1256.7	1275.9	1295.0	1312.8
40°	1188.6	1204.9	1226.9	1248.2	1266.7
42.5°	1134.7	1152.4	1176.5	1197.1	1217.0
45°	1076.5	1097.8	1122.6	1145.3	1164.5
47.5°	1022.6	1041.0	1065.8	1090.7	1110.5
50°	962.2	982.8	1008.4	1034.6	1056.6
52.5°	901.2	922.5	948.8	975.0	997.7
55°	838.1	860.0	887.0	914.7	936.7
57.5°	773.5	796.9	824.6	852.2	874.2
60°	708.2	731.6	757.9	788.4	808.2
62.5°	640.1	666.3	691.2	719.5	731.6
65°	571.9	596.8	623.0	647.9	655.0
67.5°	502.4	528.0	551.4	567.7	576.9
70°	431.4	459.1	476.1	491.8	497.4
72.5°	361.2	388.9	398.8	413.7	419.4
75°	291.7	318.6	325.0	338.5	343.5
77.5°	224.2	249.1	251.2	266.8	271.1
80°	160.4	180.2	183.8	198.7	201.5
82.5°	102.9	117.1	122.1	134.8	139.1
85°	53.9	61.7	67.4	73.8	75.2
87.5°	17.7	22.0	18.4	19.2	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	19.99	18.25	19.90	18.61	20.21	20.53
	3H	19.49	20.98	19.86	21.30	21.66	20.11	21.60	20.48	21.93	22.29
	4H	20.11	21.52	20.51	21.87	22.24	20.78	22.18	21.17	22.53	22.90
	6H	20.52	21.83	20.93	22.19	22.58	21.25	22.56	21.66	22.92	23.31
	8H	20.62	21.87	21.05	22.26	22.66	21.40	22.64	21.82	23.03	23.43
	12H	20.67	21.87	21.10	22.25	22.68	21.48	22.68	21.91	23.06	23.49
4H	2H	18.43	19.84	18.83	20.19	20.56	18.86	20.26	19.25	20.61	20.99
	3H	20.43	21.61	20.84	22.01	22.41	20.93	22.11	21.34	22.51	22.90
	4H	21.19	22.25	21.62	22.67	23.10	21.72	22.79	22.16	23.21	23.64
	6H	21.71	22.65	22.17	23.09	23.54	22.33	23.26	22.78	23.70	24.16
	8H	21.85	22.73	22.31	23.17	23.63	22.52	23.39	22.98	23.83	24.30
	12H	21.93	22.72	22.41	23.19	23.66	22.64	23.42	23.12	23.90	24.37
8H	4H	21.52	22.40	21.98	22.84	23.30	22.00	22.87	22.46	23.32	23.78
	6H	22.16	22.89	22.66	23.38	23.85	22.71	23.44	23.21	23.93	24.40
	8H	22.36	23.01	22.87	23.52	24.01	22.97	23.62	23.48	24.13	24.61
	12H	22.49	23.07	23.00	23.56	24.12	23.15	23.73	23.66	24.22	24.78
12H	4H	21.56	22.35	22.04	22.82	23.29	22.02	22.81	22.50	23.28	23.75
	6H	22.22	22.87	22.73	23.38	23.86	22.75	23.40	23.26	23.91	24.39
	8H	22.47	23.05	22.98	23.54	24.10	23.06	23.63	23.56	24.12	24.68