

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: P1584613

Luminaire Tested: 14CZSP-A-47-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584613
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-A-47-L830
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

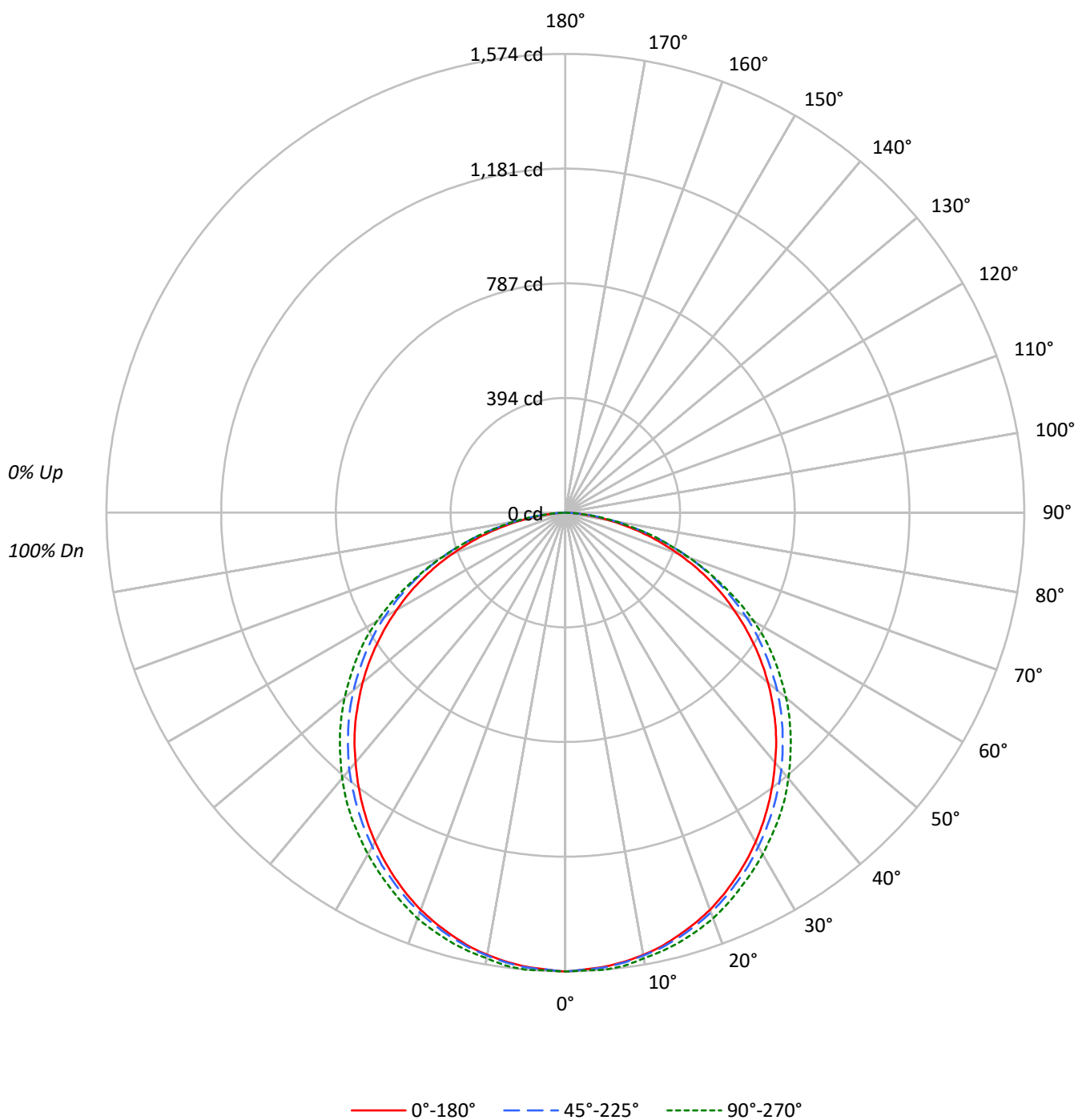
Lumens per Lamp: N/A
Luminaire Lumens: 4543.0 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 32.8
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	53		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	29		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°	5305	5305	5305
5°	5289	5298	5326
10°	5272	5281	5313
15°	5239	5262	5318
20°	5201	5235	5312
25°	5143	5193	5283
30°	5078	5151	5267
35°	5003	5108	5258
40°	4923	5071	5237
45°	4852	5019	5211
50°	4759	4971	5182
55°	4645	4905	5135
60°	4502	4829	5038
65°	4328	4693	4789
70°	4060	4458	4458
75°	3647	4050	4068
80°	3006	3423	3423
85°	2084	2498	2188

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5211 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.1	3.3
10°-20°	427.1	9.4
20°-30°	646.4	14.2
30°-40°	780.4	17.2
40°-50°	815.3	17.9
50°-60°	746.9	16.4
60°-70°	575.9	12.7
70°-80°	324.9	7.2
80°-90°	76.9	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°	1222.7	26.9
0°-40°	2003.1	44.1
0°-60°	3565.3	78.5
0°-90°	4543.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4543.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1574	1574	1574	1574	1574	
5°	1564	1574	1566	1569	1574	149
15°	1502	1511	1508	1521	1525	424
25°	1383	1395	1397	1416	1421	637
35°	1216	1232	1242	1269	1278	761
45°	1018	1036	1053	1084	1094	785
55°	791	811	835	866	874	706
65°	543	560	589	609	601	536
75°	280	302	311	319	312	297
85°	54	61	65	69	57	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1574.5	1574.5	1574.5	1574.5	1574.5
2.5°	1569.1	1579.8	1569.1	1574.5	1571.8
5°	1563.7	1574.5	1566.4	1569.1	1574.5
7.5°	1554.3	1565.0	1556.9	1561.0	1567.7
10°	1540.8	1551.6	1543.5	1550.2	1552.9
12.5°	1524.6	1534.1	1528.7	1536.7	1540.8
15°	1501.7	1511.2	1508.5	1520.6	1524.6
17.5°	1477.5	1488.3	1485.6	1500.4	1504.4
20°	1450.5	1460.0	1460.0	1473.4	1481.5
22.5°	1418.2	1429.0	1430.3	1445.2	1453.2
25°	1383.2	1395.3	1396.7	1415.5	1420.9
27.5°	1345.5	1357.6	1363.0	1383.2	1388.6
30°	1305.1	1317.2	1323.9	1346.8	1353.6
32.5°	1262.0	1276.8	1283.5	1309.1	1315.9
35°	1216.2	1232.4	1241.8	1268.7	1278.2
37.5°	1169.1	1185.2	1197.3	1225.6	1236.4
40°	1119.2	1136.7	1152.9	1181.2	1190.6
42.5°	1070.7	1088.2	1103.1	1132.7	1142.1
45°	1018.2	1035.7	1053.2	1084.2	1093.6
47.5°	963.0	981.8	1002.0	1030.3	1042.5
50°	907.8	926.6	948.2	977.8	988.6
52.5°	849.9	870.1	891.6	922.6	930.7
55°	790.6	810.8	835.0	866.0	874.1
57.5°	730.0	751.5	777.1	806.8	814.8
60°	668.0	689.6	716.5	744.8	747.5
62.5°	607.4	626.3	653.2	680.2	676.1
65°	542.8	560.3	588.6	608.8	600.7
67.5°	478.1	497.0	522.6	537.4	526.6
70°	412.1	432.3	452.5	463.3	452.5
72.5°	346.1	367.7	382.5	389.2	379.8
75°	280.1	301.7	311.1	319.2	312.5
77.5°	216.8	237.0	241.1	250.5	241.1
80°	154.9	173.7	176.4	185.9	176.4
82.5°	99.7	111.8	117.2	125.3	115.8
85°	53.9	60.6	64.6	68.7	56.6
87.5°	18.9	21.5	18.9	16.2	6.7
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	18.42	20.02	20.33
	3H	19.30	20.79	19.67	21.12	21.48	19.86	21.35	20.24	21.68	22.04
	4H	19.94	21.34	20.33	21.69	22.07	20.51	21.91	20.90	22.26	22.64
	6H	20.36	21.67	20.77	22.03	22.42	20.95	22.25	21.36	22.61	23.01
	8H	20.47	21.72	20.89	22.10	22.50	21.07	22.31	21.49	22.70	23.10
	12H	20.52	21.72	20.95	22.10	22.53	21.13	22.32	21.56	22.70	23.13
4H	2H	18.24	19.64	18.63	19.99	20.37	18.66	20.07	19.06	20.42	20.79
	3H	20.24	21.42	20.65	21.82	22.22	20.70	21.88	21.11	22.28	22.68
	4H	21.01	22.08	21.44	22.49	22.93	21.48	22.55	21.91	22.96	23.39
	6H	21.56	22.49	22.01	22.93	23.38	22.05	22.98	22.50	23.42	23.87
	8H	21.70	22.57	22.16	23.02	23.48	22.21	23.08	22.67	23.53	23.99
	12H	21.79	22.57	22.26	23.05	23.51	22.30	23.09	22.78	23.56	24.03
8H	4H	21.35	22.23	21.81	22.67	23.13	21.77	22.64	22.23	23.08	23.55
	6H	22.01	22.74	22.51	23.23	23.70	22.45	23.17	22.94	23.66	24.14
	8H	22.22	22.87	22.73	23.38	23.86	22.68	23.33	23.19	23.84	24.32
	12H	22.36	22.93	22.86	23.42	23.98	22.83	23.41	23.34	23.90	24.46
12H	4H	21.39	22.18	21.87	22.65	23.12	21.79	22.58	22.27	23.05	23.52
	6H	22.07	22.72	22.58	23.23	23.71	22.49	23.14	23.00	23.65	24.13
	8H	22.33	22.90	22.83	23.39	23.95	22.77	23.35	23.28	23.84	24.40