

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: P1584328

Luminaire Tested: 14CZSP-47-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584328
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-47-L945-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 4000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

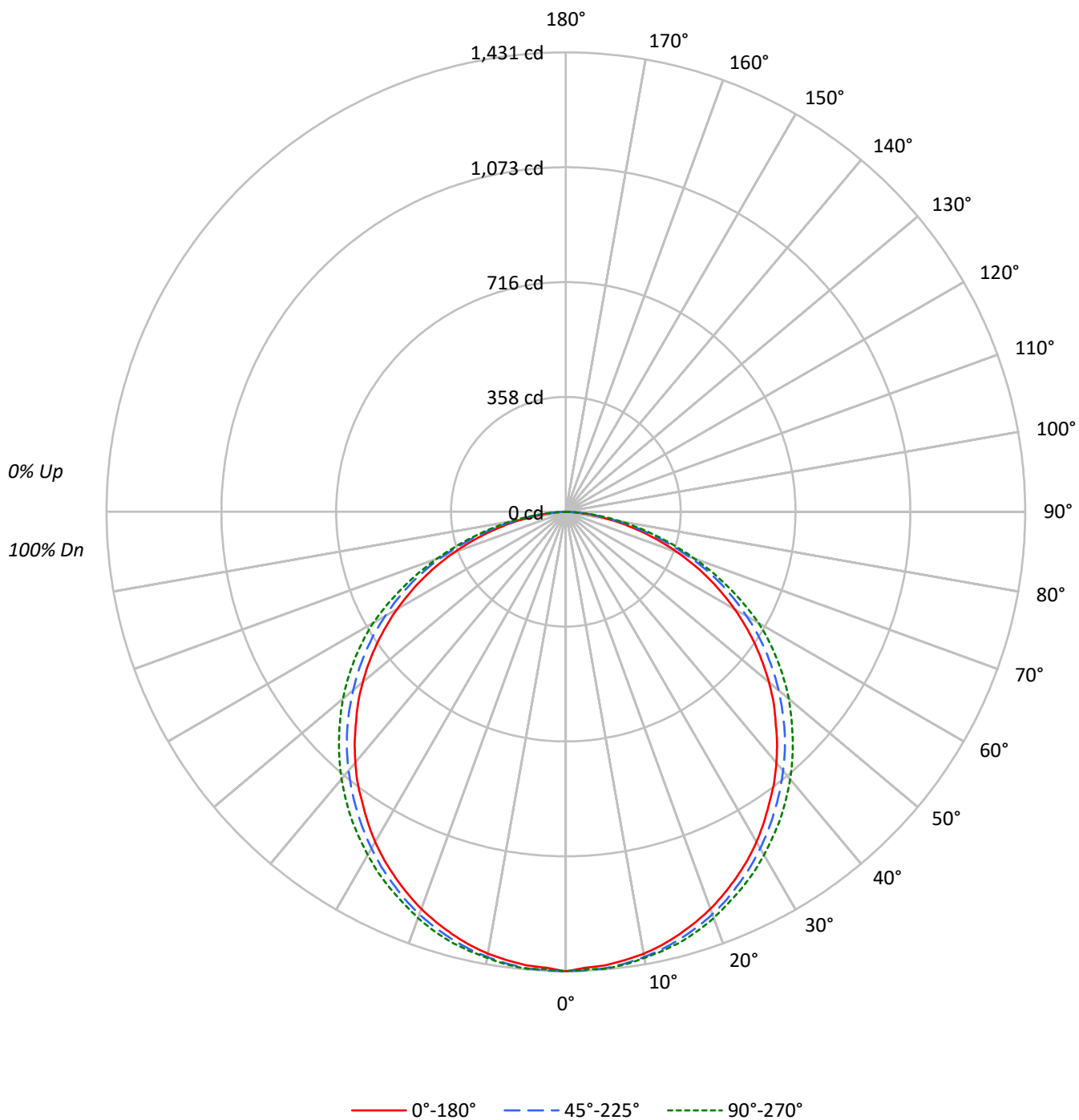
Lumens per Lamp: N/A
Luminaire Lumens: 4138.0 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	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°	4823	4823	4823
5°	4796	4827	4831
10°	4783	4818	4829
15°	4755	4804	4838
20°	4722	4785	4829
25°	4674	4749	4814
30°	4621	4711	4804
35°	4547	4670	4796
40°	4488	4632	4782
45°	4403	4592	4763
50°	4329	4537	4754
55°	4226	4472	4723
60°	4097	4384	4675
65°	3914	4264	4482
70°	3648	4027	4207
75°	3259	3632	3838
80°	2672	3062	3357
85°	1790	2239	2498

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4763 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.6	3.3
10°-20°	388.6	9.4
20°-30°	588.5	14.2
30°-40°	710.6	17.2
40°-50°	742.7	17.9
50°-60°	680.5	16.4
60°-70°	525.3	12.7
70°-80°	295.5	7.1
80°-90°	70.7	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°	1112.7	26.9
0°-40°	1823.3	44.1
0°-60°	3246.5	78.5
0°-90°	4138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4138.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1431	1431	1431	1431	1431	
5°	1418	1428	1427	1428	1428	135
15°	1363	1374	1377	1383	1387	385
25°	1257	1268	1277	1284	1295	579
35°	1106	1120	1135	1151	1166	693
45°	924	942	964	983	1000	714
55°	719	738	761	785	804	643
65°	491	512	535	556	562	485
75°	250	274	279	290	295	265
85°	46	53	58	63	65	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1431.3	1431.3	1431.3	1431.3	1431.3
2.5°	1421.6	1432.6	1430.1	1433.8	1427.1
5°	1417.9	1428.3	1427.1	1428.3	1428.3
7.5°	1408.8	1419.8	1419.2	1421.0	1422.2
10°	1397.8	1408.2	1408.2	1410.0	1411.2
12.5°	1382.6	1393.6	1394.8	1397.8	1400.3
15°	1363.1	1374.1	1377.1	1382.6	1386.9
17.5°	1341.2	1352.8	1357.6	1363.1	1368.6
20°	1316.8	1327.2	1334.5	1338.8	1346.7
22.5°	1288.2	1299.8	1307.7	1312.0	1320.5
25°	1257.1	1268.1	1277.2	1283.9	1294.9
27.5°	1224.3	1235.2	1246.2	1254.1	1266.9
30°	1187.7	1199.3	1210.9	1223.0	1234.6
32.5°	1148.1	1161.5	1174.3	1187.7	1200.5
35°	1105.5	1119.5	1135.3	1150.6	1165.8
37.5°	1065.9	1078.7	1095.1	1111.6	1126.8
40°	1020.2	1034.2	1053.1	1071.4	1087.2
42.5°	973.9	989.1	1009.9	1027.5	1044.6
45°	924.0	942.2	963.6	983.1	999.5
47.5°	877.7	893.5	914.8	936.2	953.2
50°	825.9	843.6	865.5	888.0	906.9
52.5°	773.5	791.8	814.3	836.9	856.4
55°	719.3	738.2	761.3	785.1	804.0
57.5°	663.9	684.0	707.8	731.5	750.4
60°	607.9	628.0	650.5	676.7	693.7
62.5°	549.4	571.9	593.2	617.6	628.0
65°	490.9	512.2	534.8	556.1	562.2
67.5°	431.2	453.2	473.3	487.3	495.2
70°	370.3	394.1	408.7	422.1	427.0
72.5°	310.0	333.8	342.3	355.1	360.0
75°	250.3	273.5	279.0	290.5	294.8
77.5°	192.5	213.8	215.6	229.0	232.7
80°	137.7	154.7	157.8	170.5	173.0
82.5°	88.3	100.5	104.8	115.7	119.4
85°	46.3	53.0	57.9	63.3	64.6
87.5°	15.2	18.9	15.8	16.4	15.2
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	17.18	18.83	17.54	19.14	19.46	17.72	19.37	18.08	19.68	20.00
	3H	18.95	20.45	19.33	20.77	21.13	19.58	21.07	19.95	21.40	21.76
	4H	19.58	20.99	19.98	21.34	21.71	20.24	21.65	20.64	22.00	22.37
	6H	19.99	21.29	20.40	21.66	22.05	20.72	22.03	21.13	22.39	22.78
	8H	20.09	21.34	20.52	21.73	22.13	20.87	22.11	21.29	22.50	22.90
	12H	20.14	21.34	20.57	21.72	22.15	20.95	22.14	21.38	22.53	22.95
4H	2H	17.90	19.31	18.30	19.66	20.03	18.33	19.73	18.72	20.08	20.45
	3H	19.90	21.08	20.31	21.48	21.88	20.40	21.58	20.81	21.97	22.37
	4H	20.66	21.72	21.09	22.14	22.57	21.19	22.26	21.62	22.67	23.11
	6H	21.18	22.12	21.64	22.56	23.01	21.80	22.73	22.25	23.17	23.62
	8H	21.32	22.20	21.78	22.64	23.10	21.99	22.86	22.45	23.30	23.77
	12H	21.40	22.19	21.88	22.66	23.13	22.11	22.89	22.59	23.37	23.84
8H	4H	20.99	21.87	21.45	22.31	22.77	21.47	22.34	21.93	22.79	23.25
	6H	21.63	22.36	22.13	22.85	23.32	22.18	22.91	22.67	23.40	23.87
	8H	21.83	22.48	22.34	22.99	23.47	22.44	23.09	22.95	23.60	24.08
	12H	21.96	22.54	22.47	23.03	23.59	22.62	23.20	23.13	23.69	24.25
12H	4H	21.03	21.82	21.51	22.29	22.76	21.49	22.28	21.97	22.75	23.22
	6H	21.69	22.34	22.20	22.85	23.33	22.22	22.87	22.73	23.38	23.86
	8H	21.94	22.51	22.45	23.00	23.56	22.53	23.10	23.03	23.59	24.15