

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: P1584319

Luminaire Tested: 14CZSP-47-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584319
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-47-L845
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 4000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

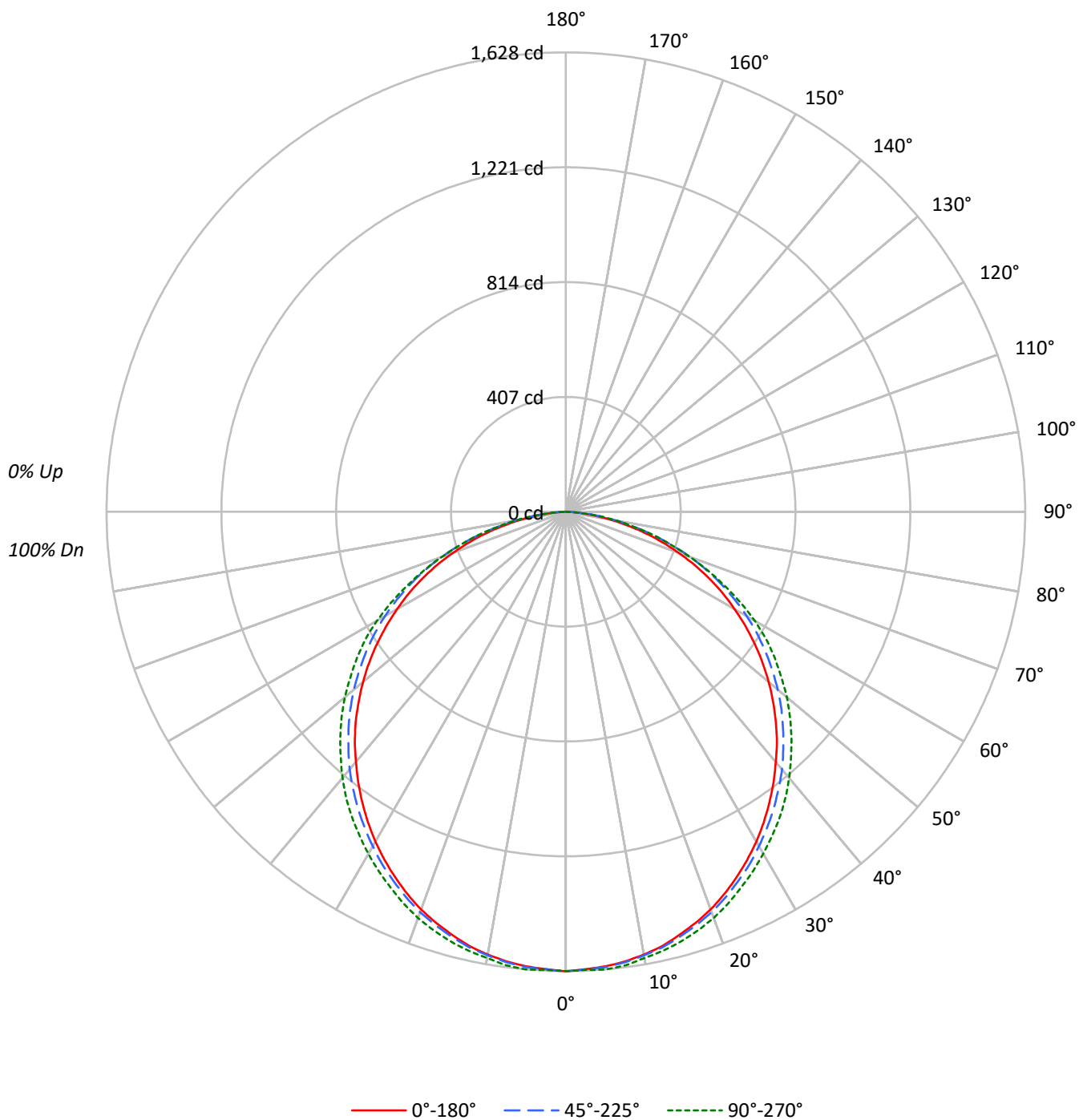
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4698.0 lumens
Efficiency: N/A
Efficacy: 143.2 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			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	53		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	29		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°	5486	5486	5486
5°	5469	5479	5507
10°	5452	5461	5495
15°	5418	5442	5500
20°	5379	5414	5494
25°	5318	5370	5463
30°	5251	5327	5446
35°	5174	5283	5437
40°	5091	5244	5416
45°	5018	5190	5389
50°	4921	5140	5359
55°	4803	5073	5310
60°	4655	4994	5209
65°	4475	4853	4953
70°	4199	4611	4611
75°	3772	4188	4206
80°	3109	3541	3541
85°	2153	2586	2262

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5389 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	3.3
10°-20°	441.7	9.4
20°-30°	668.5	14.2
30°-40°	807.0	17.2
40°-50°	843.1	17.9
50°-60°	772.4	16.4
60°-70°	595.5	12.7
70°-80°	336.0	7.2
80°-90°	79.5	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°	1264.4	26.9
0°-40°	2071.5	44.1
0°-60°	3687.0	78.5
0°-90°	4698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4698.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1628	1628	1628	1628	1628	
5°	1617	1628	1620	1623	1628	154
15°	1553	1563	1560	1572	1577	438
25°	1430	1443	1444	1464	1469	659
35°	1258	1274	1284	1312	1322	787
45°	1053	1071	1089	1121	1131	812
55°	818	838	864	896	904	730
65°	561	579	609	630	621	555
75°	290	312	322	330	323	307
85°	56	63	67	71	58	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1628.2	1628.2	1628.2	1628.2	1628.2
2.5°	1622.6	1633.7	1622.6	1628.2	1625.4
5°	1617.0	1628.2	1619.8	1622.6	1628.2
7.5°	1607.3	1618.4	1610.1	1614.2	1621.2
10°	1593.4	1604.5	1596.1	1603.1	1605.9
12.5°	1576.6	1586.4	1580.8	1589.2	1593.4
15°	1553.0	1562.7	1559.9	1572.5	1576.6
17.5°	1527.9	1539.0	1536.3	1551.6	1555.8
20°	1500.0	1509.8	1509.8	1523.7	1532.1
22.5°	1466.6	1477.8	1479.1	1494.5	1502.8
25°	1430.4	1442.9	1444.3	1463.8	1469.4
27.5°	1391.4	1403.9	1409.5	1430.4	1436.0
30°	1349.6	1362.2	1369.1	1392.8	1399.8
32.5°	1305.0	1320.4	1327.3	1353.8	1360.8
35°	1257.7	1274.4	1284.2	1312.0	1321.8
37.5°	1208.9	1225.7	1238.2	1267.4	1278.6
40°	1157.4	1175.5	1192.2	1221.5	1231.2
42.5°	1107.3	1125.4	1140.7	1171.3	1181.1
45°	1053.0	1071.1	1089.2	1121.2	1130.9
47.5°	995.8	1015.3	1036.2	1065.5	1078.0
50°	938.7	958.2	980.5	1011.2	1022.3
52.5°	878.9	899.7	922.0	954.1	962.4
55°	817.6	838.5	863.5	895.6	903.9
57.5°	754.9	777.2	803.6	834.3	842.6
60°	690.8	713.1	741.0	770.2	773.0
62.5°	628.1	647.6	675.5	703.4	699.2
65°	561.3	579.4	608.7	629.5	621.2
67.5°	494.4	513.9	540.4	555.7	544.6
70°	426.2	447.1	468.0	479.1	468.0
72.5°	357.9	380.2	395.6	402.5	392.8
75°	289.7	312.0	321.7	330.1	323.1
77.5°	224.2	245.1	249.3	259.1	249.3
80°	160.2	179.7	182.5	192.2	182.5
82.5°	103.1	115.6	121.2	129.5	119.8
85°	55.7	62.7	66.9	71.0	58.5
87.5°	19.5	22.3	19.5	16.7	7.0
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	17.63	19.28	17.99	19.59	19.90	18.17	19.82	18.54	20.13	20.45
	3H	19.41	20.91	19.79	21.23	21.59	19.98	21.47	20.35	21.80	22.16
	4H	20.05	21.46	20.45	21.81	22.18	20.62	22.03	21.02	22.38	22.75
	6H	20.48	21.78	20.89	22.15	22.54	21.06	22.37	21.47	22.73	23.12
	8H	20.59	21.83	21.01	22.22	22.62	21.19	22.43	21.61	22.82	23.22
	12H	20.64	21.84	21.07	22.22	22.65	21.24	22.44	21.67	22.82	23.25
4H	2H	18.35	19.76	18.75	20.11	20.48	18.78	20.19	19.18	20.53	20.91
	3H	20.36	21.54	20.77	21.94	22.34	20.81	22.00	21.22	22.39	22.79
	4H	21.13	22.20	21.56	22.61	23.04	21.59	22.66	22.03	23.08	23.51
	6H	21.67	22.61	22.13	23.05	23.50	22.16	23.10	22.62	23.54	23.99
	8H	21.82	22.69	22.28	23.13	23.60	22.33	23.20	22.79	23.64	24.11
	12H	21.90	22.69	22.38	23.16	23.63	22.42	23.21	22.90	23.68	24.15
8H	4H	21.47	22.34	21.93	22.79	23.25	21.88	22.76	22.34	23.20	23.66
	6H	22.13	22.86	22.62	23.34	23.82	22.57	23.29	23.06	23.78	24.25
	8H	22.34	22.99	22.84	23.49	23.98	22.80	23.45	23.31	23.95	24.44
	12H	22.47	23.05	22.98	23.54	24.10	22.95	23.52	23.45	24.01	24.57
12H	4H	21.51	22.29	21.99	22.77	23.24	21.91	22.69	22.39	23.17	23.64
	6H	22.19	22.84	22.69	23.34	23.83	22.61	23.26	23.11	23.76	24.25
	8H	22.44	23.02	22.95	23.51	24.07	22.89	23.47	23.40	23.96	24.52