

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: P1584317

Luminaire Tested: 14CZSP-47-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584317
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-L840
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

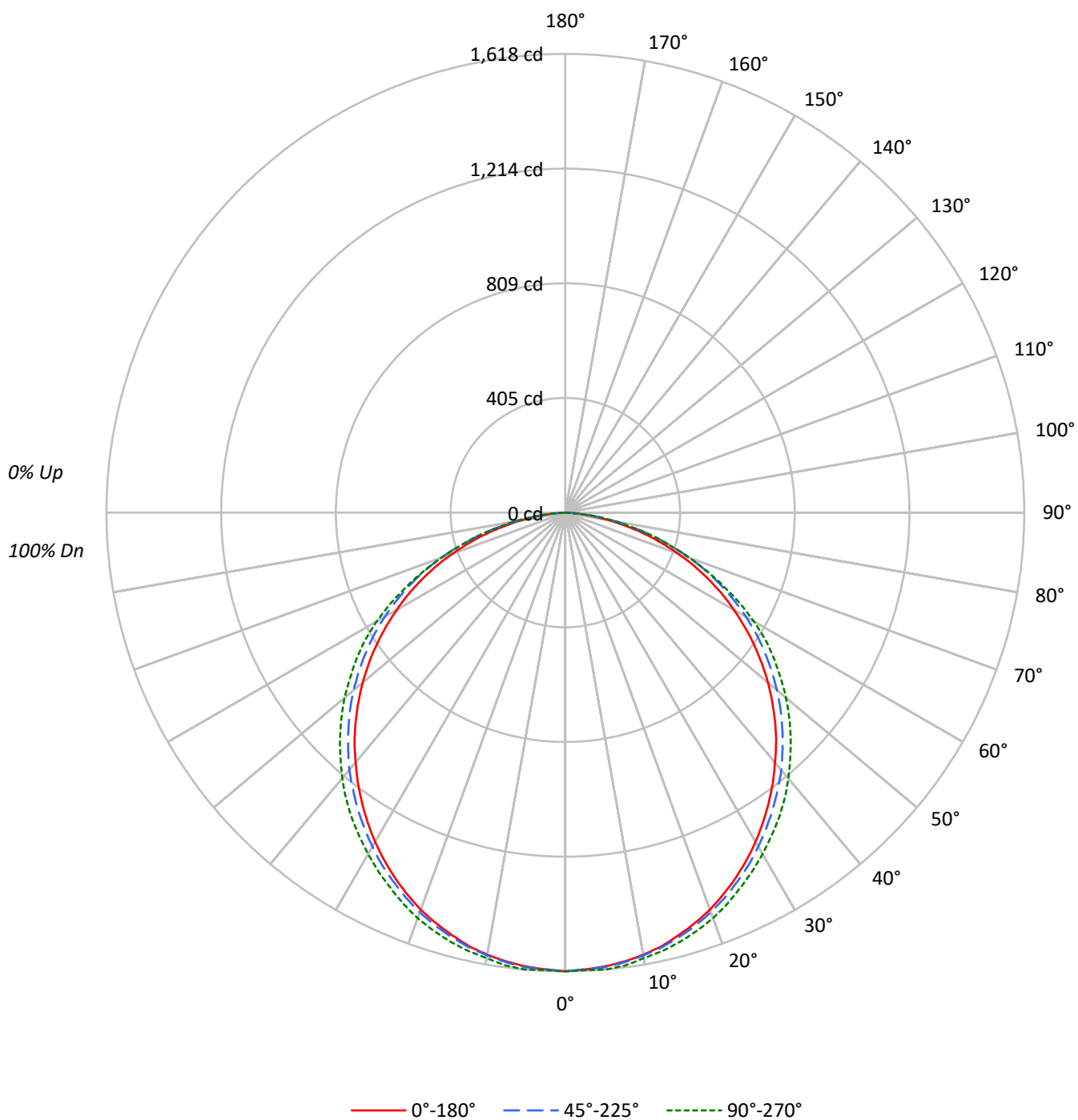
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4668.0 lumens
Efficiency: N/A
Efficacy: 142.3 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): 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°	5451	5451	5451
5°	5435	5444	5472
10°	5417	5426	5459
15°	5383	5407	5465
20°	5345	5379	5459
25°	5284	5336	5428
30°	5218	5293	5411
35°	5141	5249	5402
40°	5058	5211	5381
45°	4985	5157	5355
50°	4889	5107	5325
55°	4772	5040	5277
60°	4626	4961	5176
65°	4447	4822	4921
70°	4172	4581	4581
75°	3748	4162	4180
80°	3087	3518	3518
85°	2142	2567	2246

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5355 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.2	3.3
10°-20°	438.9	9.4
20°-30°	664.2	14.2
30°-40°	801.9	17.2
40°-50°	837.8	17.9
50°-60°	767.5	16.4
60°-70°	591.7	12.7
70°-80°	333.8	7.2
80°-90°	79.0	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°	1256.3	26.9
0°-40°	2058.2	44.1
0°-60°	3663.5	78.5
0°-90°	4668.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4668.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1618	1618	1618	1618	1618	
5°	1607	1618	1610	1612	1618	153
15°	1543	1553	1550	1562	1567	435
25°	1421	1434	1435	1454	1460	655
35°	1250	1266	1276	1304	1313	782
45°	1046	1064	1082	1114	1124	806
55°	812	833	858	890	898	726
65°	558	576	605	626	617	551
75°	288	310	320	328	321	305
85°	55	62	66	71	58	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1617.8	1617.8	1617.8	1617.8	1617.8
2.5°	1612.2	1623.3	1612.2	1617.8	1615.0
5°	1606.7	1617.8	1609.5	1612.2	1617.8
7.5°	1597.0	1608.1	1599.8	1603.9	1610.9
10°	1583.2	1594.3	1585.9	1592.9	1595.6
12.5°	1566.6	1576.3	1570.7	1579.0	1583.2
15°	1543.0	1552.7	1550.0	1562.4	1566.6
17.5°	1518.1	1529.2	1526.4	1541.7	1545.8
20°	1490.5	1500.1	1500.1	1514.0	1522.3
22.5°	1457.2	1468.3	1469.7	1484.9	1493.2
25°	1421.3	1433.7	1435.1	1454.5	1460.0
27.5°	1382.5	1395.0	1400.5	1421.3	1426.8
30°	1341.0	1353.5	1360.4	1383.9	1390.8
32.5°	1296.7	1311.9	1318.9	1345.2	1352.1
35°	1249.7	1266.3	1276.0	1303.6	1313.3
37.5°	1201.2	1217.8	1230.3	1259.3	1270.4
40°	1150.0	1168.0	1184.6	1213.7	1223.4
42.5°	1100.2	1118.2	1133.4	1163.9	1173.5
45°	1046.2	1064.2	1082.2	1114.0	1123.7
47.5°	989.5	1008.9	1029.6	1058.7	1071.1
50°	932.7	952.1	974.3	1004.7	1015.8
52.5°	873.2	894.0	916.1	948.0	956.3
55°	812.3	833.1	858.0	889.8	898.2
57.5°	750.1	772.2	798.5	829.0	837.3
60°	686.4	708.6	736.2	765.3	768.1
62.5°	624.1	643.5	671.2	698.9	694.7
65°	557.7	575.7	604.8	625.5	617.2
67.5°	491.3	510.7	537.0	552.2	541.1
70°	423.5	444.2	465.0	476.1	465.0
72.5°	355.7	377.8	393.0	399.9	390.3
75°	287.9	310.0	319.7	328.0	321.1
77.5°	222.8	243.6	247.7	257.4	247.7
80°	159.1	178.5	181.3	191.0	181.3
82.5°	102.4	114.9	120.4	128.7	119.0
85°	55.4	62.3	66.4	70.6	58.1
87.5°	19.4	22.1	19.4	16.6	6.9
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	17.60	19.25	17.97	19.57	19.88	18.15	19.80	18.51	20.11	20.43
	3H	19.39	20.89	19.77	21.21	21.57	19.96	21.45	20.33	21.77	22.13
	4H	20.03	21.44	20.43	21.79	22.16	20.60	22.01	21.00	22.36	22.73
	6H	20.46	21.76	20.87	22.12	22.51	21.04	22.35	21.45	22.71	23.10
	8H	20.56	21.81	20.99	22.20	22.60	21.16	22.41	21.59	22.80	23.20
	12H	20.62	21.81	21.05	22.19	22.62	21.22	22.42	21.65	22.80	23.23
4H	2H	18.33	19.74	18.73	20.09	20.46	18.76	20.16	19.15	20.51	20.89
	3H	20.34	21.52	20.75	21.92	22.31	20.79	21.97	21.20	22.37	22.77
	4H	21.11	22.17	21.54	22.59	23.02	21.57	22.64	22.00	23.05	23.49
	6H	21.65	22.58	22.10	23.02	23.48	22.14	23.07	22.59	23.51	23.97
	8H	21.80	22.67	22.25	23.11	23.57	22.31	23.18	22.77	23.62	24.09
	12H	21.88	22.67	22.36	23.14	23.61	22.40	23.18	22.88	23.66	24.13
8H	4H	21.45	22.32	21.91	22.76	23.23	21.86	22.73	22.32	23.18	23.64
	6H	22.11	22.83	22.60	23.32	23.80	22.54	23.27	23.04	23.76	24.23
	8H	22.31	22.96	22.82	23.47	23.96	22.78	23.43	23.28	23.93	24.42
	12H	22.45	23.03	22.96	23.52	24.08	22.93	23.50	23.43	23.99	24.55
12H	4H	21.49	22.27	21.97	22.75	23.21	21.89	22.67	22.37	23.15	23.62
	6H	22.16	22.81	22.67	23.32	23.81	22.58	23.24	23.09	23.74	24.23
	8H	22.42	23.00	22.93	23.49	24.05	22.87	23.44	23.37	23.93	24.49