

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: P1584329

Luminaire Tested: 14CZSP-47-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584329
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-L945
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 4000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

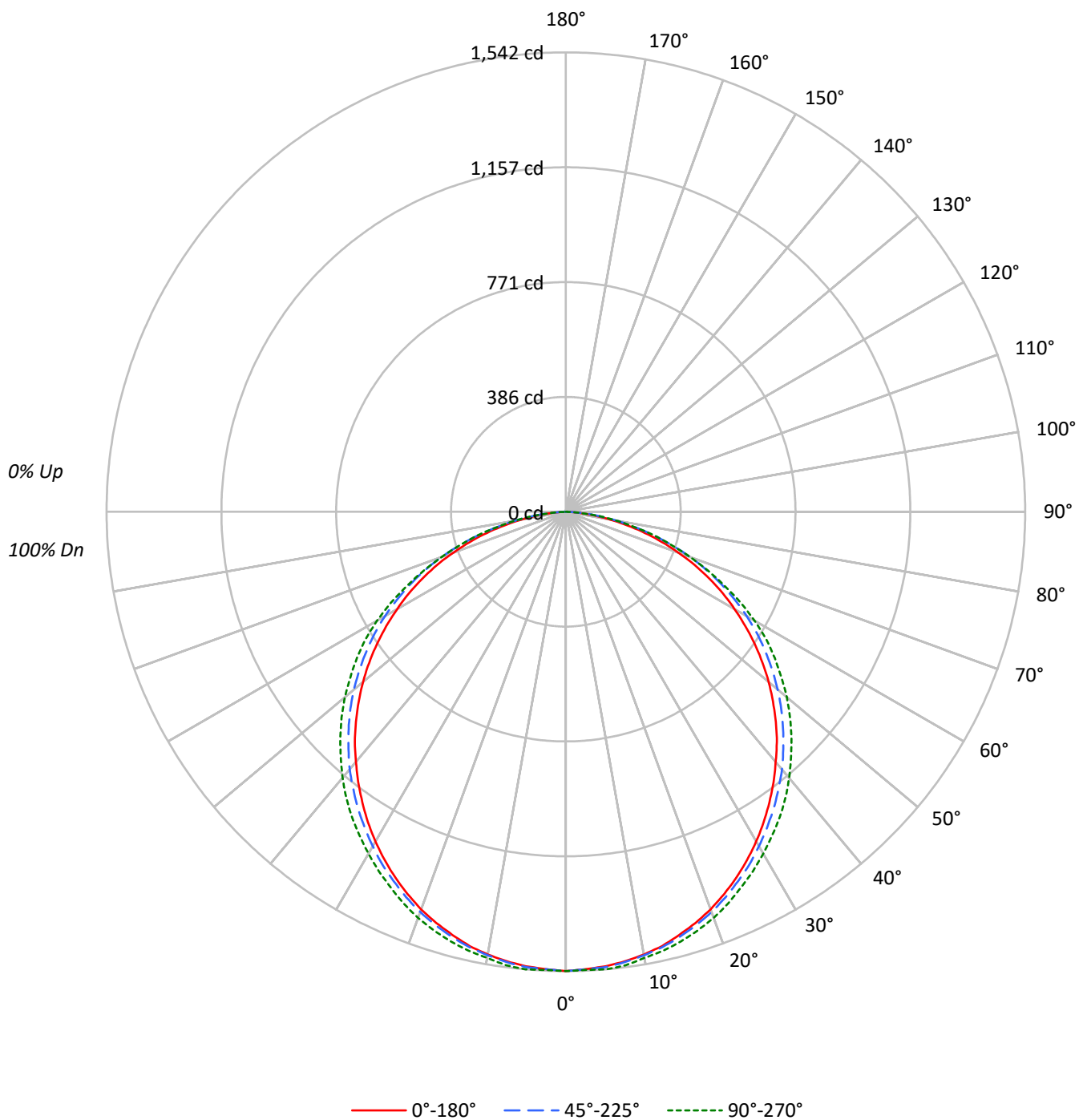
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4449.0 lumens
Efficiency: N/A
Efficacy: 135.6 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): 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°	5196	5196	5196
5°	5180	5189	5215
10°	5163	5172	5204
15°	5130	5153	5209
20°	5094	5127	5203
25°	5036	5085	5173
30°	4973	5045	5158
35°	4899	5002	5149
40°	4821	4966	5129
45°	4751	4915	5104
50°	4660	4868	5075
55°	4548	4804	5029
60°	4409	4729	4933
65°	4238	4596	4691
70°	3976	4366	4366
75°	3571	3967	3984
80°	2944	3353	3353
85°	2041	2447	2142

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5104 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.0	3.3
10°-20°	418.3	9.4
20°-30°	633.1	14.2
30°-40°	764.3	17.2
40°-50°	798.5	17.9
50°-60°	731.5	16.4
60°-70°	563.9	12.7
70°-80°	318.2	7.2
80°-90°	75.3	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°	1197.4	26.9
0°-40°	1961.7	44.1
0°-60°	3491.6	78.5
0°-90°	4449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4449.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1542	1542	1542	1542	1542	
5°	1531	1542	1534	1537	1542	145
15°	1471	1480	1477	1489	1493	415
25°	1355	1366	1368	1386	1392	624
35°	1191	1207	1216	1242	1252	745
45°	997	1014	1031	1062	1071	769
55°	774	794	818	848	856	692
65°	532	549	576	596	588	525
75°	274	296	305	313	306	291
85°	53	59	63	67	55	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1541.9	1541.9	1541.9	1541.9	1541.9
2.5°	1536.6	1547.2	1536.6	1541.9	1539.2
5°	1531.3	1541.9	1534.0	1536.6	1541.9
7.5°	1522.1	1532.6	1524.7	1528.7	1535.3
10°	1508.9	1519.5	1511.5	1518.1	1520.8
12.5°	1493.1	1502.3	1497.0	1504.9	1508.9
15°	1470.7	1479.9	1477.3	1489.1	1493.1
17.5°	1446.9	1457.5	1454.8	1469.3	1473.3
20°	1420.5	1429.8	1429.8	1443.0	1450.9
22.5°	1388.9	1399.4	1400.7	1415.3	1423.2
25°	1354.6	1366.5	1367.8	1386.2	1391.5
27.5°	1317.7	1329.5	1334.8	1354.6	1359.9
30°	1278.1	1290.0	1296.6	1319.0	1325.6
32.5°	1235.9	1250.4	1257.0	1282.0	1288.6
35°	1191.0	1206.9	1216.1	1242.5	1251.7
37.5°	1144.9	1160.7	1172.6	1200.3	1210.8
40°	1096.1	1113.2	1129.0	1156.7	1166.0
42.5°	1048.6	1065.7	1080.2	1109.3	1118.5
45°	997.1	1014.3	1031.4	1061.8	1071.0
47.5°	943.1	961.5	981.3	1009.0	1020.9
50°	889.0	907.5	928.6	957.6	968.1
52.5°	832.3	852.1	873.2	903.5	911.4
55°	774.2	794.0	817.8	848.1	856.0
57.5°	714.9	736.0	761.0	790.1	798.0
60°	654.2	675.3	701.7	729.4	732.0
62.5°	594.9	613.3	639.7	666.1	662.1
65°	531.5	548.7	576.4	596.2	588.3
67.5°	468.2	486.7	511.8	526.3	515.7
70°	403.6	423.4	443.2	453.7	443.2
72.5°	339.0	360.1	374.6	381.2	372.0
75°	274.3	295.5	304.7	312.6	306.0
77.5°	212.4	232.1	236.1	245.3	236.1
80°	151.7	170.1	172.8	182.0	172.8
82.5°	97.6	109.5	114.8	122.7	113.4
85°	52.8	59.4	63.3	67.3	55.4
87.5°	18.5	21.1	18.5	15.8	6.6
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	17.44	19.09	17.80	19.40	19.72	17.98	19.63	18.35	19.95	20.26
	3H	19.23	20.72	19.60	21.04	21.40	19.79	21.28	20.17	21.61	21.97
	4H	19.86	21.27	20.26	21.62	21.99	20.43	21.84	20.83	22.19	22.56
	6H	20.29	21.59	20.70	21.96	22.35	20.87	22.18	21.28	22.54	22.93
	8H	20.40	21.64	20.82	22.03	22.43	21.00	22.24	21.42	22.63	23.03
	12H	20.45	21.65	20.88	22.03	22.46	21.05	22.25	21.48	22.63	23.06
4H	2H	18.16	19.57	18.56	19.92	20.29	18.59	20.00	18.99	20.34	20.72
	3H	20.17	21.35	20.58	21.75	22.15	20.63	21.81	21.03	22.20	22.60
	4H	20.94	22.01	21.37	22.42	22.85	21.41	22.47	21.84	22.89	23.32
	6H	21.48	22.42	21.94	22.86	23.31	21.97	22.91	22.43	23.35	23.80
	8H	21.63	22.50	22.09	22.94	23.41	22.14	23.01	22.60	23.45	23.92
	12H	21.71	22.50	22.19	22.97	23.44	22.23	23.02	22.71	23.49	23.96
8H	4H	21.28	22.16	21.74	22.60	23.06	21.69	22.57	22.15	23.01	23.47
	6H	21.94	22.67	22.43	23.15	23.63	22.38	23.10	22.87	23.59	24.06
	8H	22.15	22.80	22.66	23.30	23.79	22.61	23.26	23.12	23.76	24.25
	12H	22.28	22.86	22.79	23.35	23.91	22.76	23.33	23.27	23.82	24.38
12H	4H	21.32	22.10	21.80	22.58	23.05	21.72	22.50	22.20	22.98	23.45
	6H	22.00	22.65	22.50	23.15	23.64	22.42	23.07	22.92	23.57	24.06
	8H	22.25	22.83	22.76	23.32	23.88	22.70	23.28	23.21	23.77	24.33