

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: P1586445

Luminaire Tested: 22CZSP-47-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-772-10)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-47-L935
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 4500 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

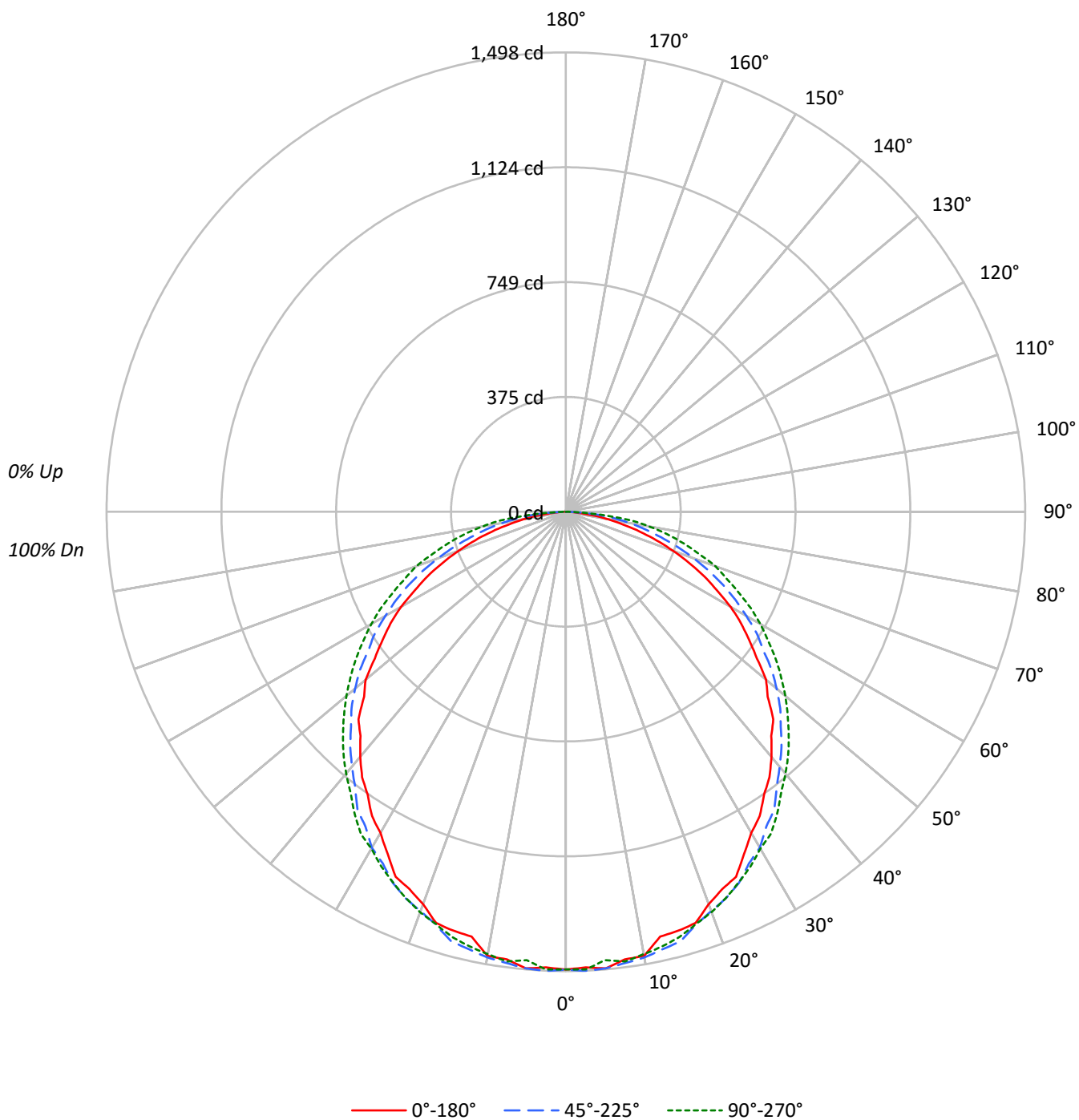
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4358.0 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 33.1
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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	31	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4674	4674	4674
5°	4698	4698	4613
10°	4675	4693	4657
15°	4586	4697	4652
20°	4537	4618	4630
25°	4537	4614	4608
30°	4372	4574	4587
35°	4306	4530	4594
40°	4263	4433	4555
45°	4235	4387	4552
50°	4152	4369	4550
55°	3983	4287	4561
60°	3888	4255	4587
65°	3691	4194	4600
70°	3404	4059	4756
75°	3025	3879	4802
80°	2514	3805	4977
85°	1538	3406	4207

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5151 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	3.2
10°-20°	404.5	9.3
20°-30°	610.0	14.0
30°-40°	732.7	16.8
40°-50°	764.8	17.6
50°-60°	704.2	16.2
60°-70°	556.1	12.8
70°-80°	342.5	7.9
80°-90°	101.5	2.3
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°	1156.0	26.5
0°-40°	1888.8	43.3
0°-60°	3357.9	77.1
0°-90°	4358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4358.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1493	1493	1493	1493	1493	
5°	1494	1480	1494	1496	1468	141
15°	1414	1434	1449	1442	1435	400
25°	1313	1322	1336	1330	1334	598
35°	1126	1147	1185	1191	1202	708
45°	956	964	991	1012	1028	731
55°	730	749	785	821	836	655
65°	498	516	566	607	621	491
75°	250	274	321	372	397	265
85°	43	61	95	112	117	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1492.6	1492.6	1492.6	1492.6	1492.6
2.5°	1487.0	1502.8	1498.2	1501.0	1493.5
5°	1494.5	1479.6	1494.5	1496.3	1467.5
7.5°	1472.2	1474.0	1484.2	1487.0	1478.7
10°	1470.3	1475.9	1475.9	1466.6	1464.7
12.5°	1419.2	1447.1	1461.0	1467.5	1451.7
15°	1414.5	1434.1	1448.9	1442.4	1435.0
17.5°	1406.2	1400.6	1410.8	1418.3	1409.9
20°	1361.6	1370.9	1385.7	1387.6	1389.5
22.5°	1331.8	1334.6	1364.4	1367.1	1363.4
25°	1313.2	1322.5	1335.5	1330.0	1333.7
27.5°	1258.4	1280.7	1292.8	1303.9	1303.9
30°	1209.1	1235.2	1264.9	1268.6	1268.6
32.5°	1176.6	1194.3	1216.6	1224.0	1244.5
35°	1126.4	1146.9	1185.0	1190.6	1201.7
37.5°	1091.1	1111.6	1129.2	1148.7	1153.4
40°	1042.8	1064.2	1084.6	1106.9	1114.3
42.5°	991.7	1014.0	1040.9	1064.2	1073.5
45°	956.4	963.8	990.7	1012.1	1027.9
47.5°	892.2	913.6	948.0	974.9	981.4
50°	852.3	860.6	896.9	933.1	934.0
52.5°	785.3	810.4	845.8	880.1	884.8
55°	729.6	749.1	785.3	820.7	835.5
57.5°	677.5	692.4	738.9	774.2	782.6
60°	620.8	636.6	679.4	720.3	732.4
62.5°	554.9	577.2	623.6	662.7	679.4
65°	498.2	515.8	566.0	606.9	620.8
67.5°	434.0	458.2	505.6	551.1	566.0
70°	371.8	395.9	443.3	490.7	519.5
72.5°	310.4	335.5	382.9	437.7	453.5
75°	250.0	274.2	320.6	371.8	396.9
77.5°	190.5	216.5	263.9	315.1	339.2
80°	139.4	159.9	211.0	255.6	276.0
82.5°	86.4	107.8	155.2	197.0	214.7
85°	42.8	61.3	94.8	112.5	117.1
87.5°	13.0	19.5	29.7	39.0	44.6
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	16.82	18.49	17.19	18.80	19.11	17.65	19.31	18.01	19.62	19.94
	3H	18.58	20.09	18.95	20.41	20.77	19.79	21.30	20.17	21.63	21.99
	4H	19.19	20.61	19.59	20.96	21.34	20.71	22.13	21.11	22.48	22.85
	6H	19.59	20.92	20.00	21.28	21.67	21.51	22.83	21.92	23.19	23.58
	8H	19.70	20.96	20.12	21.35	21.75	21.83	23.09	22.26	23.48	23.88
	12H	19.74	20.95	20.17	21.33	21.76	22.04	23.25	22.47	23.63	24.06
4H	2H	17.61	19.04	18.01	19.38	19.76	18.25	19.68	18.65	20.02	20.40
	3H	19.59	20.79	20.00	21.18	21.58	20.63	21.83	21.04	22.23	22.63
	4H	20.32	21.41	20.75	21.82	22.25	21.70	22.79	22.13	23.20	23.63
	6H	20.84	21.79	21.29	22.23	22.69	22.67	23.62	23.12	24.06	24.51
	8H	20.98	21.87	21.44	22.31	22.78	23.06	23.96	23.52	24.40	24.86
	12H	21.06	21.86	21.54	22.33	22.80	23.33	24.13	23.81	24.61	25.08
8H	4H	20.79	21.68	21.24	22.12	22.58	21.99	22.88	22.45	23.32	23.79
	6H	21.44	22.19	21.93	22.67	23.15	23.11	23.86	23.61	24.34	24.82
	8H	21.65	22.31	22.15	22.82	23.30	23.62	24.29	24.13	24.79	25.28
	12H	21.78	22.37	22.28	22.86	23.42	23.99	24.58	24.50	25.07	25.63
12H	4H	20.88	21.68	21.36	22.16	22.62	22.01	22.82	22.49	23.29	23.76
	6H	21.58	22.25	22.09	22.75	23.24	23.16	23.83	23.67	24.34	24.82
	8H	21.85	22.44	22.36	22.93	23.49	23.74	24.33	24.24	24.82	25.38