

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: P1586673

Luminaire Tested: 22CZSP-A-47-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586673
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-A-47-L830
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 4500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

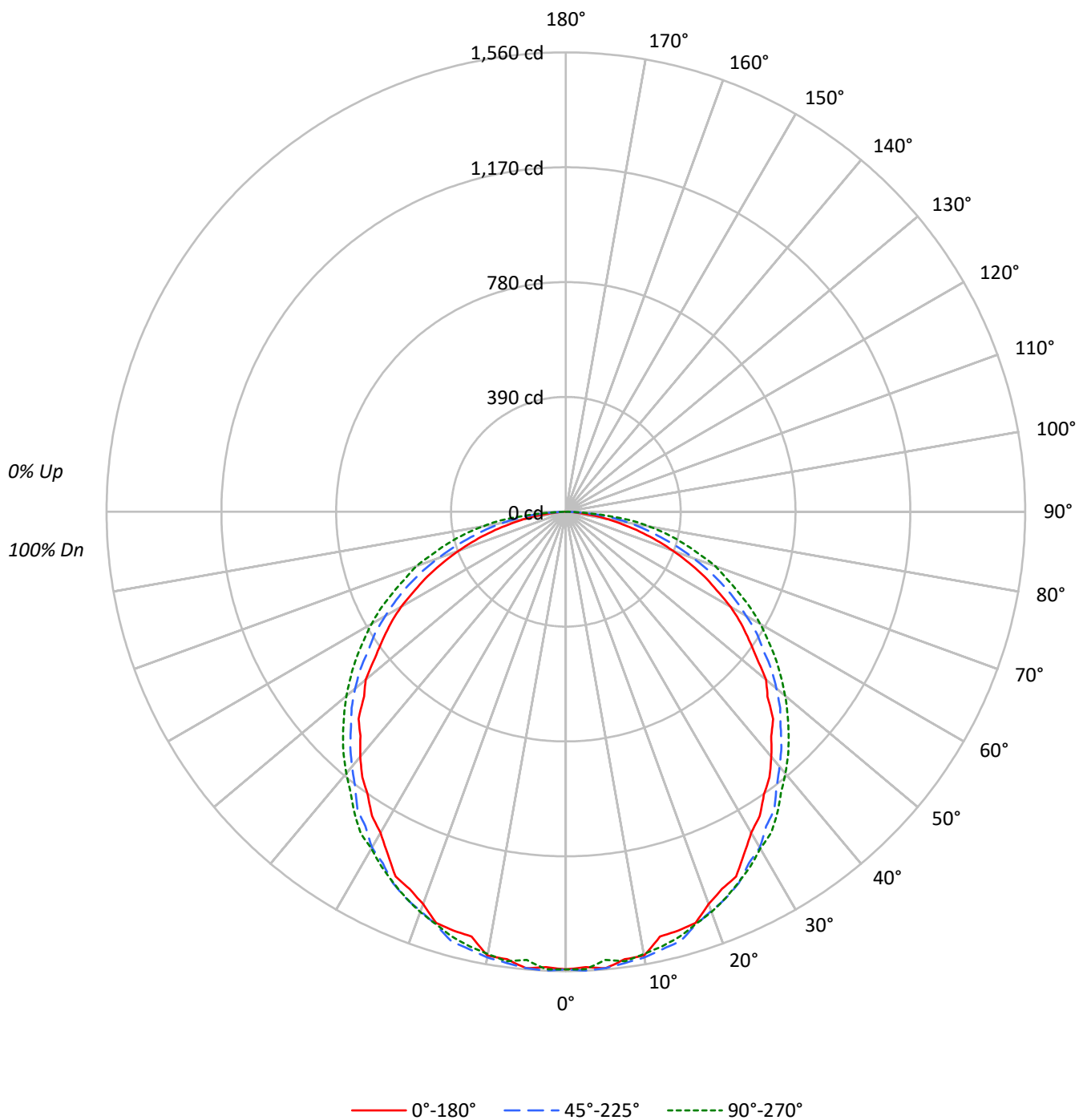
Lumens per Lamp: N/A
Luminaire Lumens: 4537.0 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	4866	4866	4866
5°	4891	4891	4802
10°	4867	4886	4849
15°	4774	4890	4843
20°	4724	4807	4820
25°	4724	4804	4797
30°	4551	4762	4775
35°	4483	4716	4783
40°	4438	4616	4742
45°	4409	4567	4739
50°	4322	4549	4737
55°	4146	4464	4749
60°	4048	4430	4775
65°	3842	4366	4789
70°	3543	4225	4952
75°	3149	4038	4999
80°	2617	3960	5183
85°	1599	3546	4380

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5362 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	3.2
10°-20°	421.1	9.3
20°-30°	635.1	14.0
30°-40°	762.8	16.8
40°-50°	796.3	17.6
50°-60°	733.2	16.2
60°-70°	579.0	12.8
70°-80°	356.5	7.9
80°-90°	105.7	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°	1203.5	26.5
0°-40°	1966.4	43.3
0°-60°	3495.8	77.1
0°-90°	4537.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4537.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1554	1554	1554	1554	1554	
5°	1556	1540	1556	1558	1528	147
15°	1473	1493	1508	1502	1494	416
25°	1367	1377	1390	1385	1388	623
35°	1173	1194	1234	1240	1251	737
45°	996	1003	1031	1054	1070	761
55°	760	780	818	854	870	682
65°	519	537	589	632	646	511
75°	260	285	334	387	413	276
85°	44	64	99	117	122	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1553.9	1553.9	1553.9	1553.9	1553.9
2.5°	1548.1	1564.6	1559.7	1562.6	1554.9
5°	1555.9	1540.4	1555.9	1557.8	1527.8
7.5°	1532.6	1534.6	1545.2	1548.1	1539.4
10°	1530.7	1536.5	1536.5	1526.8	1524.9
12.5°	1477.5	1506.5	1521.0	1527.8	1511.3
15°	1472.6	1493.0	1508.4	1501.7	1493.9
17.5°	1463.9	1458.1	1468.8	1476.5	1467.8
20°	1417.5	1427.2	1442.7	1444.6	1446.5
22.5°	1386.5	1389.4	1420.4	1423.3	1419.4
25°	1367.2	1376.9	1390.4	1384.6	1388.5
27.5°	1310.1	1333.3	1345.9	1357.5	1357.5
30°	1258.8	1285.9	1316.9	1320.7	1320.7
32.5°	1224.9	1243.3	1266.6	1274.3	1295.6
35°	1172.7	1194.0	1233.7	1239.5	1251.1
37.5°	1135.9	1157.2	1175.6	1195.9	1200.8
40°	1085.6	1107.9	1129.2	1152.4	1160.1
42.5°	1032.4	1055.6	1083.7	1107.9	1117.5
45°	995.6	1003.4	1031.4	1053.7	1070.1
47.5°	928.9	951.1	986.9	1015.0	1021.8
50°	887.3	896.0	933.7	971.4	972.4
52.5°	817.6	843.7	880.5	916.3	921.1
55°	759.5	779.9	817.6	854.4	869.8
57.5°	705.4	720.8	769.2	806.0	814.7
60°	646.3	662.8	707.3	749.9	762.4
62.5°	577.6	600.9	649.2	689.9	707.3
65°	518.6	537.0	589.3	631.8	646.3
67.5°	451.9	477.0	526.4	573.8	589.3
70°	387.0	412.2	461.5	510.9	540.9
72.5°	323.2	349.3	398.6	455.7	472.2
75°	260.3	285.4	333.8	387.0	413.2
77.5°	198.4	225.4	274.8	328.0	353.2
80°	145.1	166.4	219.6	266.1	287.4
82.5°	90.0	112.2	161.6	205.1	223.5
85°	44.5	63.9	98.7	117.1	121.9
87.5°	13.5	20.3	31.0	40.6	46.4
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	16.96	18.63	17.33	18.94	19.25	17.79	19.45	18.15	19.76	20.08
	3H	18.72	20.23	19.09	20.55	20.91	19.93	21.44	20.31	21.77	22.13
	4H	19.33	20.75	19.73	21.10	21.48	20.85	22.27	21.25	22.62	22.99
	6H	19.73	21.05	20.14	21.42	21.81	21.65	22.97	22.06	23.33	23.72
	8H	19.84	21.10	20.26	21.49	21.89	21.97	23.23	22.40	23.62	24.02
	12H	19.88	21.09	20.31	21.47	21.90	22.18	23.39	22.61	23.77	24.20
4H	2H	17.75	19.18	18.15	19.52	19.90	18.39	19.82	18.79	20.16	20.54
	3H	19.73	20.93	20.14	21.32	21.72	20.77	21.97	21.18	22.37	22.77
	4H	20.46	21.55	20.89	21.96	22.39	21.84	22.93	22.27	23.34	23.77
	6H	20.98	21.93	21.43	22.37	22.83	22.81	23.76	23.26	24.20	24.65
	8H	21.12	22.01	21.58	22.45	22.92	23.20	24.10	23.66	24.54	25.00
	12H	21.20	22.00	21.68	22.47	22.94	23.47	24.27	23.95	24.75	25.22
8H	4H	20.93	21.82	21.38	22.26	22.72	22.13	23.02	22.59	23.46	23.93
	6H	21.58	22.33	22.07	22.81	23.29	23.25	24.00	23.75	24.48	24.96
	8H	21.79	22.45	22.29	22.96	23.44	23.76	24.43	24.27	24.93	25.42
	12H	21.92	22.51	22.42	23.00	23.56	24.13	24.72	24.64	25.21	25.77
12H	4H	21.02	21.82	21.50	22.30	22.76	22.15	22.96	22.63	23.43	23.90
	6H	21.72	22.39	22.23	22.89	23.38	23.30	23.97	23.81	24.48	24.96
	8H	21.99	22.58	22.50	23.07	23.63	23.88	24.47	24.38	24.96	25.52