

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: P1586435

Luminaire Tested: 22CZSP-47-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586435
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-L835
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 4500 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

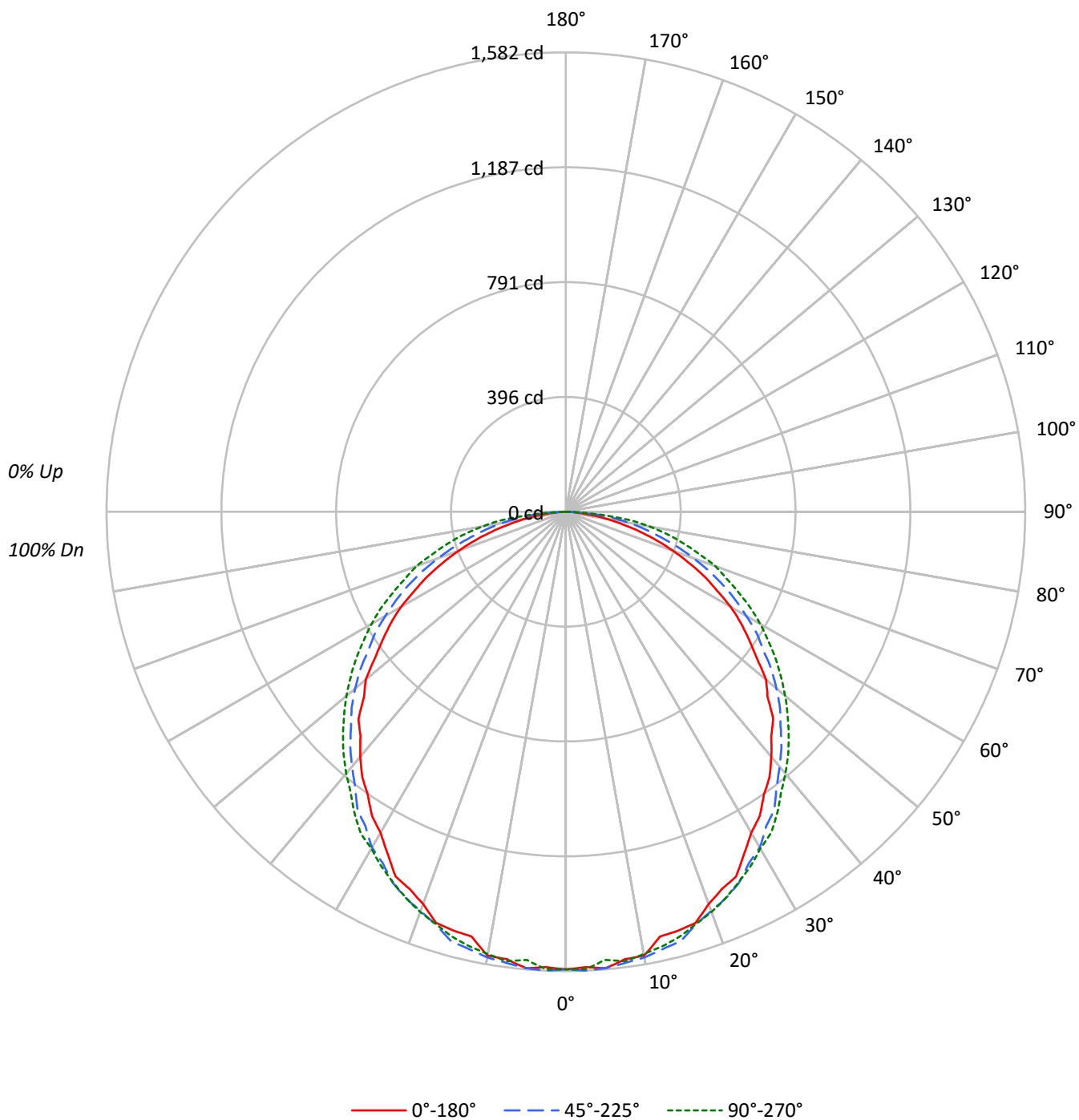
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4601.0 lumens
Efficiency: N/A
Efficacy: 139.0 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°	4934	4934	4934
5°	4959	4959	4870
10°	4936	4955	4917
15°	4841	4959	4911
20°	4790	4875	4888
25°	4790	4872	4865
30°	4616	4828	4843
35°	4546	4783	4850
40°	4500	4681	4809
45°	4471	4632	4806
50°	4383	4613	4804
55°	4205	4526	4816
60°	4105	4492	4842
65°	3897	4428	4857
70°	3593	4285	5022
75°	3193	4095	5069
80°	2654	4016	5255
85°	1620	3596	4441

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5439 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.4	3.2
10°-20°	427.0	9.3
20°-30°	644.1	14.0
30°-40°	773.6	16.8
40°-50°	807.5	17.6
50°-60°	743.5	16.2
60°-70°	587.1	12.8
70°-80°	361.6	7.9
80°-90°	107.2	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°	1220.5	26.5
0°-40°	1994.1	43.3
0°-60°	3545.1	77.1
0°-90°	4601.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4601.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1576	1576	1576	1576	1576	
5°	1578	1562	1578	1580	1549	149
15°	1493	1514	1530	1523	1515	422
25°	1386	1396	1410	1404	1408	632
35°	1189	1211	1251	1257	1269	747
45°	1010	1018	1046	1068	1085	772
55°	770	791	829	866	882	692
65°	526	545	598	641	656	518
75°	264	290	338	392	419	280
85°	45	65	100	119	124	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1575.8	1575.8	1575.8	1575.8	1575.8
2.5°	1570.0	1586.6	1581.7	1584.7	1576.8
5°	1577.8	1562.1	1577.8	1579.8	1549.3
7.5°	1554.3	1556.2	1567.0	1570.0	1561.1
10°	1552.3	1558.2	1558.2	1548.4	1546.4
12.5°	1498.3	1527.8	1542.5	1549.3	1532.7
15°	1493.4	1514.0	1529.7	1522.9	1515.0
17.5°	1484.6	1478.7	1489.5	1497.3	1488.5
20°	1437.5	1447.3	1463.0	1465.0	1466.9
22.5°	1406.1	1409.0	1440.4	1443.4	1439.5
25°	1386.5	1396.3	1410.0	1404.1	1408.1
27.5°	1328.6	1352.1	1364.9	1376.7	1376.7
30°	1276.6	1304.0	1335.4	1339.4	1339.4
32.5°	1242.2	1260.9	1284.4	1292.3	1313.9
35°	1189.2	1210.8	1251.1	1256.9	1268.7
37.5°	1152.0	1173.5	1192.2	1212.8	1217.7
40°	1100.9	1123.5	1145.1	1168.6	1176.5
42.5°	1047.0	1070.5	1099.0	1123.5	1133.3
45°	1009.7	1017.5	1046.0	1068.5	1085.2
47.5°	942.0	964.5	1000.8	1029.3	1036.2
50°	899.8	908.6	946.9	985.1	986.1
52.5°	829.1	855.6	892.9	929.2	934.1
55°	770.3	790.9	829.1	866.4	882.1
57.5°	715.3	731.0	780.1	817.4	826.2
60°	655.5	672.1	717.3	760.4	773.2
62.5°	585.8	609.3	658.4	699.6	717.3
65°	525.9	544.6	597.6	640.7	655.5
67.5°	458.2	483.7	533.8	581.9	597.6
70°	392.5	418.0	468.0	518.1	548.5
72.5°	327.7	354.2	404.3	462.2	478.8
75°	263.9	289.5	338.5	392.5	419.0
77.5°	201.2	228.6	278.7	332.6	358.1
80°	147.2	168.8	222.7	269.8	291.4
82.5°	91.3	113.8	163.9	208.0	226.7
85°	45.1	64.8	100.1	118.7	123.6
87.5°	13.7	20.6	31.4	41.2	47.1
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	17.01	18.67	17.38	18.99	19.30	17.84	19.50	18.20	19.81	20.13
	3H	18.77	20.27	19.14	20.60	20.96	19.98	21.49	20.36	21.82	22.18
	4H	19.38	20.80	19.78	21.15	21.52	20.90	22.32	21.29	22.67	23.04
	6H	19.78	21.10	20.19	21.47	21.86	21.70	23.02	22.11	23.38	23.77
	8H	19.89	21.15	20.31	21.54	21.93	22.02	23.28	22.44	23.67	24.07
	12H	19.93	21.14	20.36	21.52	21.95	22.23	23.44	22.65	23.82	24.25
4H	2H	17.80	19.23	18.20	19.57	19.95	18.44	19.86	18.84	20.21	20.59
	3H	19.78	20.98	20.19	21.37	21.77	20.82	22.02	21.23	22.42	22.82
	4H	20.51	21.60	20.94	22.01	22.44	21.89	22.97	22.32	23.39	23.82
	6H	21.03	21.98	21.48	22.42	22.87	22.85	23.81	23.31	24.25	24.70
	8H	21.17	22.06	21.63	22.50	22.97	23.25	24.14	23.71	24.59	25.05
	12H	21.25	22.05	21.72	22.52	22.99	23.52	24.32	24.00	24.80	25.27
8H	4H	20.97	21.87	21.43	22.31	22.77	22.18	23.07	22.64	23.51	23.97
	6H	21.63	22.37	22.12	22.86	23.33	23.30	24.05	23.79	24.53	25.01
	8H	21.84	22.50	22.34	23.01	23.49	23.81	24.48	24.32	24.98	25.47
	12H	21.96	22.56	22.47	23.05	23.60	24.18	24.77	24.68	25.26	25.82
12H	4H	21.07	21.87	21.54	22.34	22.81	22.20	23.01	22.68	23.48	23.95
	6H	21.77	22.44	22.27	22.94	23.43	23.35	24.02	23.86	24.53	25.01
	8H	22.04	22.63	22.55	23.12	23.68	23.92	24.52	24.43	25.01	25.56