

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: P1586481

Luminaire Tested: 22CZSP-52-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586481
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-52-L850
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

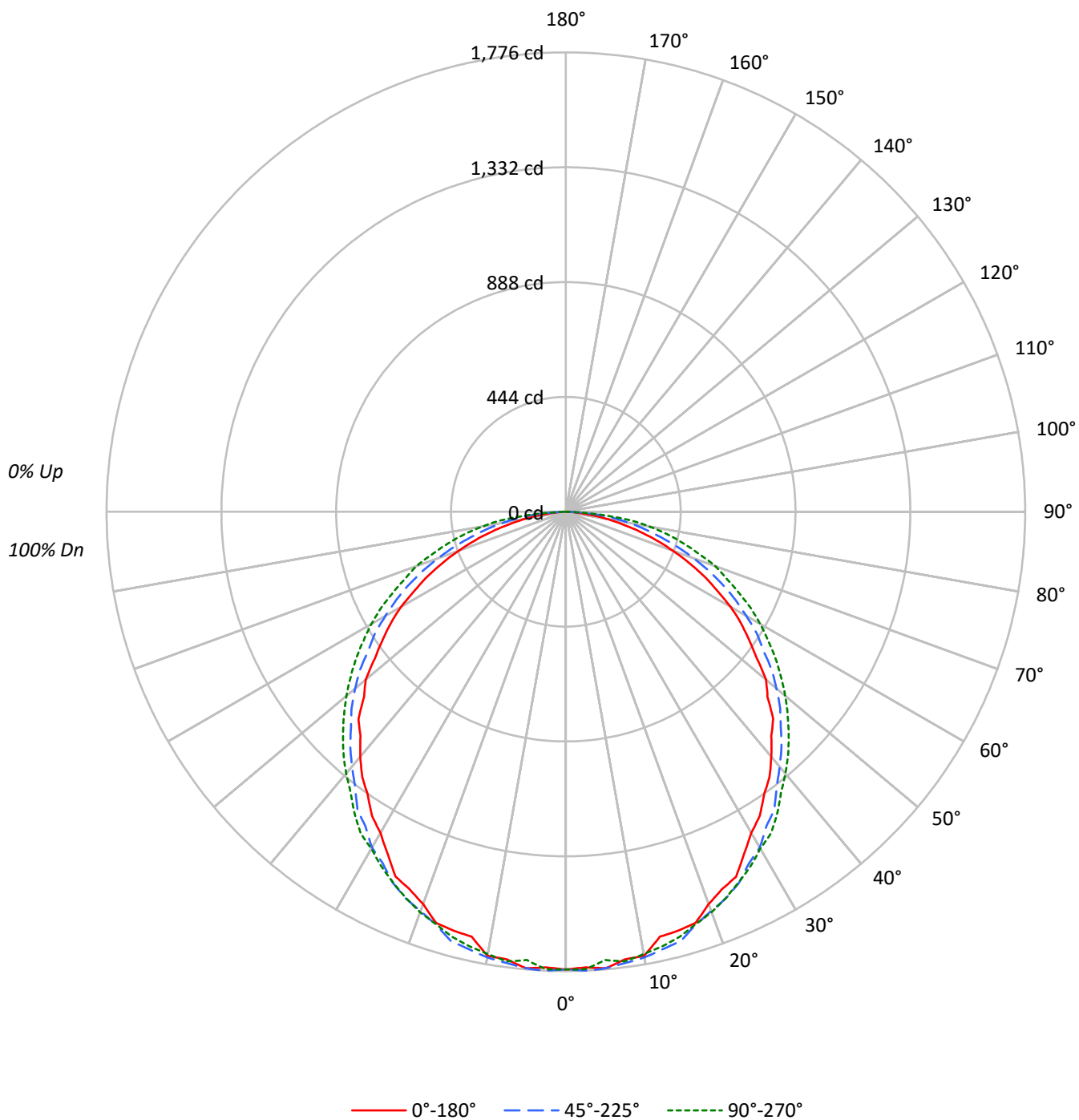
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5166.0 lumens
Efficiency: N/A
Efficacy: 138.9 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): 37.2
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°	5541	5541	5541
5°	5569	5569	5468
10°	5542	5563	5521
15°	5436	5568	5514
20°	5378	5474	5489
25°	5378	5470	5462
30°	5182	5421	5437
35°	5104	5370	5445
40°	5053	5255	5400
45°	5020	5201	5396
50°	4922	5179	5394
55°	4721	5082	5407
60°	4609	5044	5437
65°	4375	4971	5453
70°	4035	4811	5639
75°	3586	4599	5691
80°	2981	4510	5900
85°	1822	4038	4987

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6105 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	3.2
10°-20°	479.4	9.3
20°-30°	723.2	14.0
30°-40°	868.6	16.8
40°-50°	906.7	17.6
50°-60°	834.8	16.2
60°-70°	659.2	12.8
70°-80°	406.0	7.9
80°-90°	120.4	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°	1370.4	26.5
0°-40°	2239.0	43.3
0°-60°	3980.4	77.1
0°-90°	5166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5166.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1769	1769	1769	1769	1769	
5°	1772	1754	1772	1774	1740	167
15°	1677	1700	1718	1710	1701	474
25°	1557	1568	1583	1577	1581	709
35°	1335	1360	1405	1411	1424	839
45°	1134	1142	1174	1200	1218	867
55°	865	888	931	973	990	776
65°	590	612	671	719	736	582
75°	296	325	380	441	470	315
85°	51	73	112	133	139	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1769.4	1769.4	1769.4	1769.4	1769.4
2.5°	1762.7	1781.5	1776.0	1779.3	1770.5
5°	1771.6	1753.9	1771.6	1773.8	1739.6
7.5°	1745.1	1747.3	1759.4	1762.7	1752.8
10°	1742.9	1749.5	1749.5	1738.5	1736.3
12.5°	1682.3	1715.4	1731.9	1739.6	1720.9
15°	1676.8	1699.9	1717.6	1709.9	1701.0
17.5°	1666.9	1660.3	1672.4	1681.2	1671.3
20°	1614.0	1625.0	1642.7	1644.9	1647.1
22.5°	1578.8	1582.1	1617.3	1620.6	1616.2
25°	1556.7	1567.7	1583.2	1576.6	1581.0
27.5°	1491.7	1518.2	1532.5	1545.7	1545.7
30°	1433.3	1464.2	1499.4	1503.8	1503.8
32.5°	1394.8	1415.7	1442.1	1451.0	1475.2
35°	1335.3	1359.5	1404.7	1411.3	1424.5
37.5°	1293.4	1317.7	1338.6	1361.7	1367.2
40°	1236.1	1261.5	1285.7	1312.1	1321.0
42.5°	1175.5	1202.0	1233.9	1261.5	1272.5
45°	1133.7	1142.5	1174.4	1199.8	1218.5
47.5°	1057.6	1083.0	1123.7	1155.7	1163.4
50°	1010.3	1020.2	1063.2	1106.1	1107.2
52.5°	930.9	960.7	1002.6	1043.3	1048.8
55°	864.8	888.0	930.9	972.8	990.4
57.5°	803.1	820.8	875.9	917.7	927.6
60°	735.9	754.7	805.4	853.8	868.2
62.5°	657.7	684.2	739.3	785.5	805.4
65°	590.5	611.5	670.9	719.4	735.9
67.5°	514.5	543.1	599.3	653.3	670.9
70°	440.7	469.3	525.5	581.7	615.9
72.5°	368.0	397.7	453.9	518.9	537.6
75°	296.4	325.0	380.1	440.7	470.4
77.5°	225.9	256.7	312.9	373.5	402.1
80°	165.3	189.5	250.1	303.0	327.2
82.5°	102.5	127.8	184.0	233.6	254.5
85°	50.7	72.7	112.4	133.3	138.8
87.5°	15.4	23.1	35.3	46.3	52.9
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	17.41	19.08	17.78	19.39	19.71	18.24	19.90	18.60	20.21	20.53
	3H	19.17	20.68	19.54	21.00	21.36	20.39	21.89	20.76	22.22	22.58
	4H	19.78	21.20	20.18	21.55	21.93	21.30	22.72	21.70	23.07	23.44
	6H	20.19	21.51	20.60	21.87	22.26	22.10	23.42	22.51	23.78	24.18
	8H	20.29	21.55	20.71	21.94	22.34	22.42	23.69	22.85	24.07	24.47
	12H	20.33	21.54	20.76	21.93	22.35	22.63	23.84	23.06	24.22	24.65
4H	2H	18.21	19.63	18.60	19.98	20.35	18.84	20.27	19.24	20.61	20.99
	3H	20.18	21.38	20.59	21.77	22.17	21.22	22.42	21.63	22.82	23.22
	4H	20.91	22.00	21.34	22.41	22.85	22.29	23.38	22.72	23.79	24.22
	6H	21.43	22.38	21.88	22.82	23.28	23.26	24.21	23.71	24.65	25.10
	8H	21.57	22.46	22.03	22.91	23.37	23.65	24.55	24.11	24.99	25.45
	12H	21.65	22.45	22.13	22.93	23.39	23.92	24.73	24.40	25.20	25.67
8H	4H	21.38	22.27	21.84	22.71	23.17	22.58	23.47	23.04	23.91	24.38
	6H	22.03	22.78	22.52	23.26	23.74	23.70	24.45	24.20	24.94	25.41
	8H	22.24	22.91	22.74	23.41	23.90	24.21	24.88	24.72	25.39	25.87
	12H	22.37	22.96	22.87	23.45	24.01	24.58	25.17	25.09	25.66	26.22
12H	4H	21.47	22.27	21.95	22.75	23.21	22.60	23.41	23.08	23.88	24.35
	6H	22.17	22.84	22.68	23.34	23.83	23.75	24.42	24.26	24.93	25.41
	8H	22.44	23.04	22.95	23.53	24.08	24.33	24.92	24.83	25.41	25.97