

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: P1586480

Luminaire Tested: 22CZSP-52-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-52-L850-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

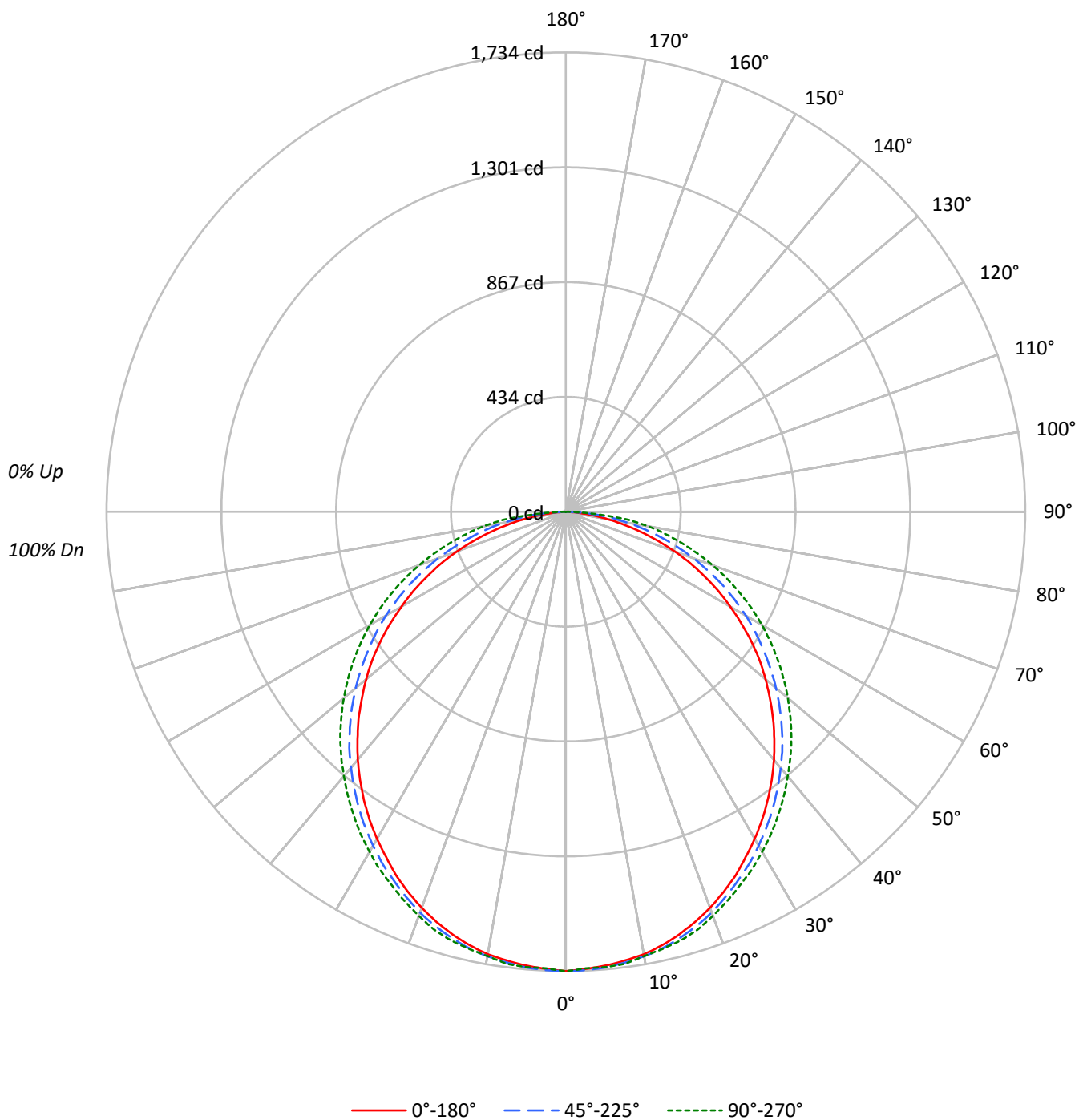
Lumens per Lamp: N/A
Luminaire Lumens: 5063.0 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	69
3	89	79	70	64	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	32	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°	5430	5430	5430
5°	5406	5427	5423
10°	5394	5419	5415
15°	5355	5399	5431
20°	5301	5364	5409
25°	5236	5309	5374
30°	5154	5262	5359
35°	5079	5211	5343
40°	4996	5159	5327
45°	4900	5107	5333
50°	4795	5044	5331
55°	4670	4973	5337
60°	4495	4919	5350
65°	4289	4823	5367
70°	3997	4689	5391
75°	3562	4503	5443
80°	2945	4286	5709
85°	1915	3873	4990

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5890 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.0	3.2
10°-20°	469.6	9.3
20°-30°	708.3	14.0
30°-40°	853.1	16.8
40°-50°	890.9	17.6
50°-60°	818.2	16.2
60°-70°	644.5	12.7
70°-80°	395.4	7.8
80°-90°	119.0	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°	1341.9	26.5
0°-40°	2195.0	43.4
0°-60°	3904.2	77.1
0°-90°	5063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5063.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1734	1734	1734	1734	1734	
5°	1720	1722	1726	1732	1725	163
15°	1652	1655	1665	1675	1675	466
25°	1515	1519	1536	1555	1555	698
35°	1329	1335	1363	1391	1398	831
45°	1106	1119	1153	1193	1204	853
55°	855	871	911	962	978	764
65°	579	599	651	706	724	573
75°	294	318	372	431	450	312
85°	53	73	108	137	139	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1734.2	1734.2	1734.2	1734.2	1734.2
2.5°	1727.5	1730.9	1732.0	1733.1	1725.3
5°	1719.8	1722.0	1726.4	1732.0	1725.3
7.5°	1708.7	1710.9	1716.4	1724.2	1720.9
10°	1696.4	1697.6	1704.2	1709.8	1703.1
12.5°	1676.4	1679.8	1687.6	1692.0	1689.8
15°	1652.0	1655.3	1665.3	1675.3	1675.3
17.5°	1623.1	1627.6	1639.8	1653.1	1654.2
20°	1590.9	1594.2	1609.8	1623.1	1623.1
22.5°	1554.2	1558.7	1574.2	1588.7	1590.9
25°	1515.4	1518.7	1536.5	1555.3	1555.3
27.5°	1469.8	1476.5	1498.7	1517.6	1522.0
30°	1425.4	1430.9	1455.4	1478.7	1482.0
32.5°	1378.7	1385.4	1410.9	1436.5	1442.0
35°	1328.7	1335.4	1363.2	1390.9	1397.6
37.5°	1276.5	1284.3	1313.2	1345.4	1352.0
40°	1222.1	1230.9	1262.1	1296.5	1303.2
42.5°	1164.3	1176.5	1209.8	1245.4	1255.4
45°	1106.5	1118.7	1153.2	1193.2	1204.3
47.5°	1045.4	1059.9	1095.4	1137.6	1149.8
50°	984.3	998.8	1035.4	1081.0	1094.3
52.5°	922.1	936.5	974.3	1022.1	1036.5
55°	855.4	871.0	911.0	962.1	977.6
57.5°	786.6	806.6	848.8	901.0	916.5
60°	717.7	737.7	785.5	836.6	854.3
62.5°	649.9	668.8	717.7	772.1	791.0
65°	578.8	598.8	651.0	705.5	724.3
67.5°	508.8	528.8	581.0	637.7	657.7
70°	436.6	458.8	512.2	568.8	588.8
72.5°	364.4	387.7	442.2	499.9	518.8
75°	294.4	317.7	372.2	431.1	449.9
77.5°	225.5	251.1	304.4	364.4	382.2
80°	163.3	187.8	237.7	296.6	316.6
82.5°	104.4	125.5	175.5	231.1	245.5
85°	53.3	73.3	107.8	136.6	138.9
87.5°	16.7	23.3	35.6	53.3	54.4
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	17.36	19.02	17.72	19.33	19.65	18.19	19.85	18.55	20.16	20.48
	3H	19.11	20.62	19.49	20.95	21.31	20.30	21.81	20.68	22.14	22.50
	4H	19.73	21.15	20.13	21.50	21.88	21.19	22.61	21.59	22.96	23.34
	6H	20.14	21.46	20.55	21.83	22.22	21.97	23.29	22.38	23.66	24.05
	8H	20.25	21.51	20.67	21.90	22.30	22.29	23.56	22.72	23.94	24.34
	12H	20.30	21.51	20.73	21.89	22.32	22.50	23.72	22.93	24.10	24.53
4H	2H	18.13	19.55	18.53	19.90	20.27	18.77	20.20	19.17	20.54	20.92
	3H	20.11	21.30	20.51	21.70	22.10	21.13	22.33	21.54	22.72	23.12
	4H	20.84	21.93	21.27	22.34	22.78	22.18	23.27	22.61	23.68	24.12
	6H	21.37	22.32	21.82	22.76	23.22	23.13	24.09	23.59	24.53	24.98
	8H	21.52	22.41	21.98	22.85	23.31	23.53	24.42	23.99	24.86	25.33
	12H	21.60	22.40	22.08	22.88	23.35	23.81	24.61	24.29	25.09	25.55
8H	4H	21.30	22.19	21.76	22.63	23.10	22.47	23.36	22.93	23.80	24.27
	6H	21.96	22.71	22.45	23.19	23.67	23.58	24.33	24.07	24.81	25.29
	8H	22.17	22.84	22.68	23.35	23.83	24.09	24.76	24.60	25.27	25.75
	12H	22.31	22.90	22.82	23.39	23.95	24.48	25.07	24.99	25.56	26.12
12H	4H	21.39	22.19	21.87	22.67	23.14	22.50	23.30	22.97	23.77	24.24
	6H	22.09	22.76	22.60	23.27	23.75	23.63	24.30	24.14	24.80	25.29
	8H	22.37	22.96	22.88	23.45	24.01	24.21	24.80	24.71	25.29	25.85