

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: P1586486

Luminaire Tested: 22CZSP-52-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586486
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-L940-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 5000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

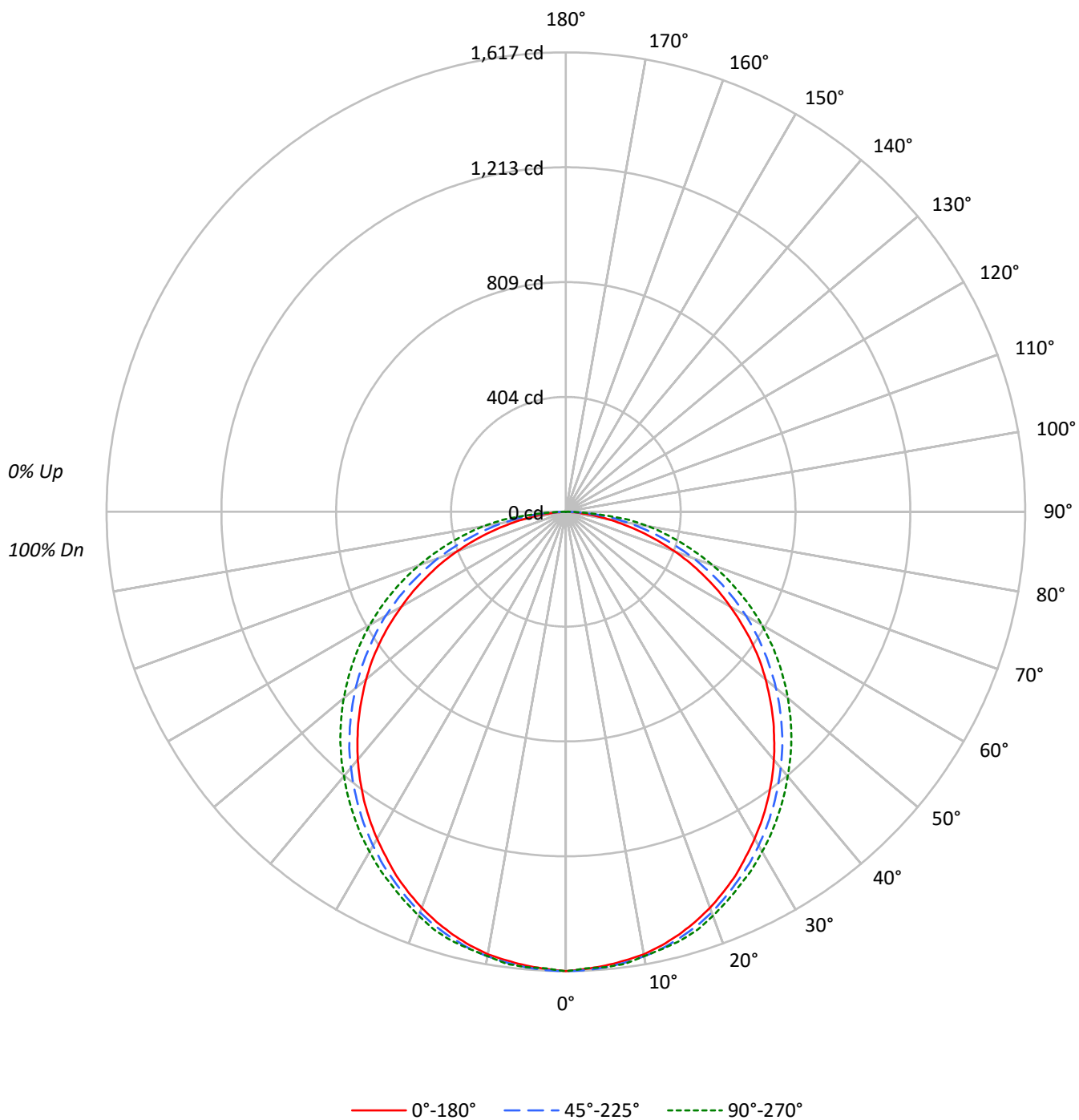
Lumens per Lamp: N/A
Luminaire Lumens: 4721.0 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	5064	5064	5064
5°	5041	5060	5057
10°	5030	5053	5050
15°	4994	5034	5064
20°	4943	5002	5043
25°	4882	4950	5011
30°	4806	4907	4997
35°	4736	4859	4982
40°	4658	4810	4967
45°	4569	4762	4973
50°	4471	4703	4971
55°	4355	4638	4977
60°	4191	4587	4989
65°	3999	4497	5004
70°	3727	4373	5026
75°	3321	4198	5075
80°	2746	3998	5323
85°	1786	3611	4653

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5491 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	3.2
10°-20°	437.9	9.3
20°-30°	660.4	14.0
30°-40°	795.5	16.8
40°-50°	830.8	17.6
50°-60°	763.0	16.2
60°-70°	600.9	12.7
70°-80°	368.7	7.8
80°-90°	111.0	2.4
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°	1251.3	26.5
0°-40°	2046.8	43.4
0°-60°	3640.5	77.1
0°-90°	4721.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4721.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1617	1617	1617	1617	1617	
5°	1604	1606	1610	1615	1609	152
15°	1540	1544	1553	1562	1562	434
25°	1413	1416	1433	1450	1450	650
35°	1239	1245	1271	1297	1303	775
45°	1032	1043	1075	1113	1123	796
55°	798	812	850	897	912	712
65°	540	558	607	658	675	534
75°	274	296	347	402	420	291
85°	50	68	100	127	130	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1617.1	1617.1	1617.1	1617.1	1617.1
2.5°	1610.9	1614.0	1615.0	1616.0	1608.8
5°	1603.6	1605.7	1609.8	1615.0	1608.8
7.5°	1593.2	1595.3	1600.5	1607.7	1604.6
10°	1581.8	1582.9	1589.1	1594.3	1588.1
12.5°	1563.2	1566.3	1573.6	1577.7	1575.6
15°	1540.4	1543.5	1552.8	1562.2	1562.2
17.5°	1513.5	1517.6	1529.0	1541.4	1542.5
20°	1483.4	1486.5	1501.0	1513.5	1513.5
22.5°	1449.2	1453.4	1467.9	1481.4	1483.4
25°	1413.0	1416.1	1432.7	1450.3	1450.3
27.5°	1370.5	1376.7	1397.5	1415.1	1419.2
30°	1329.1	1334.3	1357.1	1378.8	1381.9
32.5°	1285.6	1291.8	1315.6	1339.4	1344.6
35°	1239.0	1245.2	1271.1	1297.0	1303.2
37.5°	1190.3	1197.5	1224.5	1254.5	1260.7
40°	1139.5	1147.8	1176.8	1208.9	1215.1
42.5°	1085.6	1097.0	1128.1	1161.3	1170.6
45°	1031.8	1043.2	1075.3	1112.6	1122.9
47.5°	974.8	988.3	1021.4	1060.8	1072.2
50°	917.8	931.3	965.5	1007.9	1020.4
52.5°	859.8	873.3	908.5	953.0	966.5
55°	797.7	812.2	849.5	897.1	911.6
57.5°	733.4	752.1	791.4	840.1	854.6
60°	669.2	687.8	732.4	780.0	796.6
62.5°	606.0	623.6	669.2	720.0	737.6
65°	539.7	558.4	607.0	657.8	675.4
67.5°	474.5	493.1	541.8	594.6	613.3
70°	407.1	427.8	477.6	530.4	549.0
72.5°	339.8	361.5	412.3	466.2	483.8
75°	274.5	296.3	347.0	401.9	419.5
77.5°	210.3	234.1	283.8	339.8	356.4
80°	152.3	175.1	221.7	276.6	295.2
82.5°	97.4	117.1	163.7	215.5	228.9
85°	49.7	68.4	100.5	127.4	129.5
87.5°	15.5	21.8	33.1	49.7	50.8
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	17.11	18.78	17.48	19.09	19.40	17.94	19.61	18.31	19.92	20.23
	3H	18.87	20.38	19.25	20.70	21.06	20.06	21.57	20.44	21.89	22.25
	4H	19.49	20.91	19.89	21.26	21.63	20.95	22.37	21.35	22.72	23.09
	6H	19.90	21.22	20.31	21.58	21.97	21.73	23.05	22.14	23.41	23.80
	8H	20.01	21.27	20.43	21.66	22.06	22.05	23.31	22.47	23.70	24.10
	12H	20.06	21.27	20.49	21.65	22.08	22.26	23.47	22.69	23.85	24.28
4H	2H	17.89	19.31	18.28	19.66	20.03	18.53	19.95	18.93	20.30	20.68
	3H	19.86	21.06	20.27	21.46	21.86	20.89	22.08	21.30	22.48	22.88
	4H	20.60	21.69	21.03	22.10	22.53	21.94	23.03	22.37	23.44	23.87
	6H	21.13	22.08	21.58	22.52	22.97	22.89	23.84	23.34	24.28	24.74
	8H	21.27	22.17	21.73	22.61	23.07	23.29	24.18	23.75	24.62	25.09
	12H	21.36	22.16	21.84	22.64	23.10	23.57	24.37	24.04	24.84	25.31
8H	4H	21.06	21.95	21.52	22.39	22.86	22.23	23.12	22.69	23.56	24.03
	6H	21.72	22.46	22.21	22.95	23.42	23.34	24.08	23.83	24.57	25.04
	8H	21.93	22.60	22.44	23.10	23.59	23.85	24.52	24.36	25.02	25.51
	12H	22.07	22.66	22.58	23.15	23.71	24.24	24.83	24.74	25.32	25.88
12H	4H	21.15	21.95	21.63	22.43	22.89	22.25	23.06	22.73	23.53	24.00
	6H	21.85	22.52	22.36	23.03	23.51	23.39	24.06	23.89	24.56	25.05
	8H	22.13	22.72	22.64	23.21	23.77	23.97	24.56	24.47	25.05	25.61