

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: P1586651

Luminaire Tested: 22CZSP-A-42-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586651
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-42-L950
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

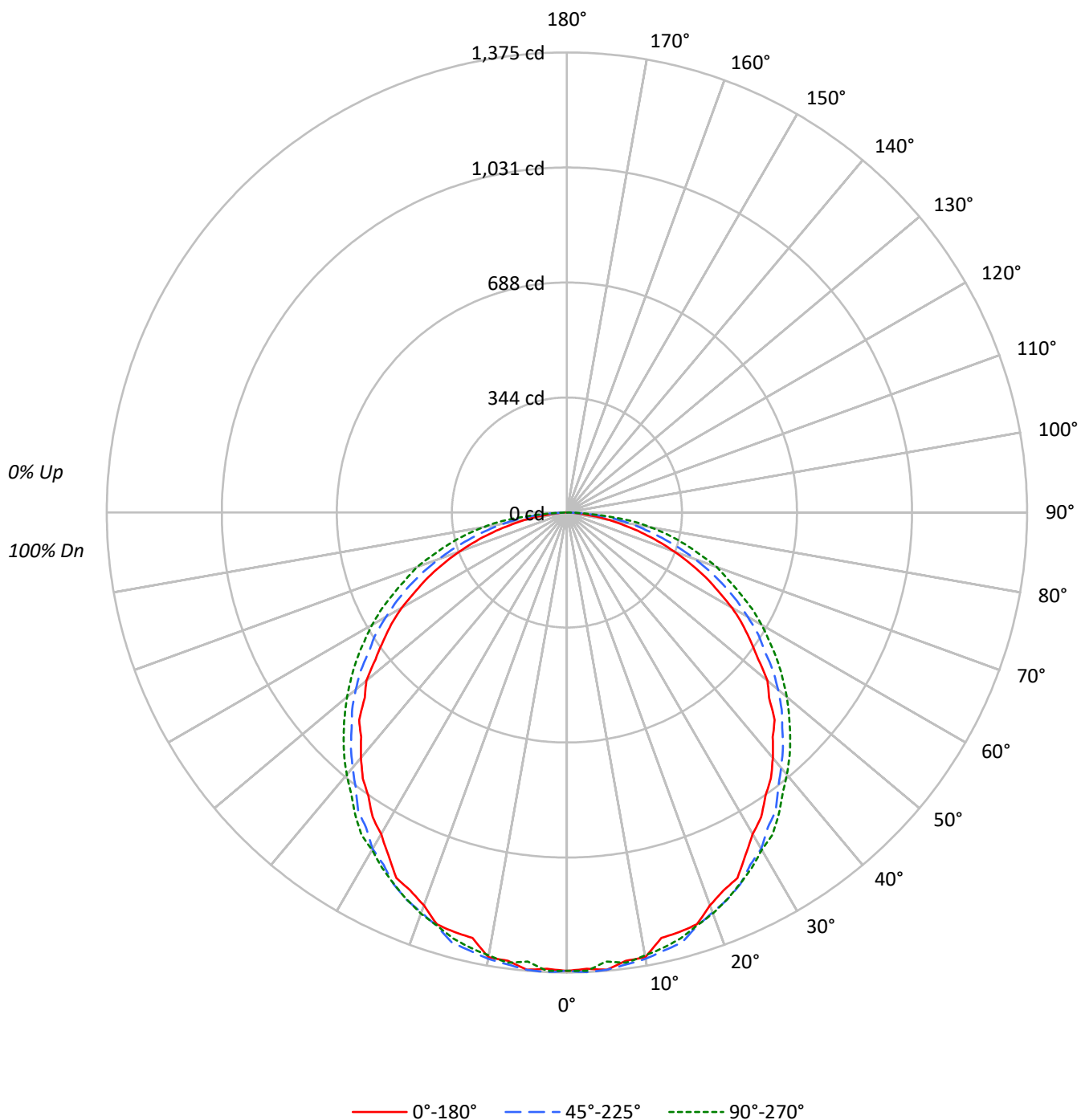
Lumens per Lamp: N/A
Luminaire Lumens: 4000.0 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.9
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	31	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4290	4290	4290
5°	4312	4312	4234
10°	4291	4307	4275
15°	4209	4311	4270
20°	4164	4238	4250
25°	4165	4235	4229
30°	4013	4198	4210
35°	3952	4158	4216
40°	3912	4069	4181
45°	3887	4027	4178
50°	3810	4010	4176
55°	3656	3935	4187
60°	3568	3905	4210
65°	3388	3849	4222
70°	3124	3725	4366
75°	2777	3561	4407
80°	2308	3491	4569
85°	1408	3126	3862

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4728 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	3.2
10°-20°	371.2	9.3
20°-30°	559.9	14.0
30°-40°	672.5	16.8
40°-50°	702.0	17.6
50°-60°	646.4	16.2
60°-70°	510.4	12.8
70°-80°	314.4	7.9
80°-90°	93.2	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°	1061.1	26.5
0°-40°	1733.6	43.3
0°-60°	3082.0	77.1
0°-90°	4000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4000.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1370	1370	1370	1370	1370	
5°	1372	1358	1372	1373	1347	130
15°	1298	1316	1330	1324	1317	367
25°	1205	1214	1226	1221	1224	549
35°	1034	1053	1088	1093	1103	650
45°	878	885	909	929	944	671
55°	670	688	721	753	767	601
65°	457	473	520	557	570	450
75°	230	252	294	341	364	244
85°	39	56	87	103	108	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1370.0	1370.0	1370.0	1370.0	1370.0
2.5°	1364.9	1379.4	1375.1	1377.7	1370.9
5°	1371.7	1358.1	1371.7	1373.4	1347.0
7.5°	1351.2	1352.9	1362.3	1364.9	1357.2
10°	1349.5	1354.6	1354.6	1346.1	1344.4
12.5°	1302.6	1328.2	1341.0	1347.0	1332.5
15°	1298.3	1316.3	1329.9	1323.9	1317.1
17.5°	1290.7	1285.5	1294.9	1301.8	1294.1
20°	1249.7	1258.2	1271.9	1273.6	1275.3
22.5°	1222.4	1225.0	1252.3	1254.8	1251.4
25°	1205.4	1213.9	1225.8	1220.7	1224.1
27.5°	1155.0	1175.5	1186.6	1196.8	1196.8
30°	1109.8	1133.7	1161.0	1164.4	1164.4
32.5°	1080.0	1096.2	1116.6	1123.5	1142.2
35°	1033.9	1052.7	1087.6	1092.8	1103.0
37.5°	1001.5	1020.2	1036.5	1054.4	1058.6
40°	957.1	976.7	995.5	1016.0	1022.8
42.5°	910.2	930.7	955.4	976.7	985.3
45°	877.8	884.6	909.4	929.0	943.5
47.5°	818.9	838.5	870.1	894.8	900.8
50°	782.2	789.9	823.2	856.5	857.3
52.5°	720.8	743.9	776.3	807.8	812.1
55°	669.6	687.6	720.8	753.2	766.9
57.5°	621.9	635.5	678.2	710.6	718.3
60°	569.8	584.3	623.6	661.1	672.2
62.5°	509.3	529.7	572.4	608.2	623.6
65°	457.2	473.4	519.5	557.0	569.8
67.5°	398.4	420.6	464.1	505.9	519.5
70°	341.2	363.4	406.9	450.4	476.9
72.5°	284.9	308.0	351.5	401.8	416.3
75°	229.5	251.6	294.3	341.2	364.3
77.5°	174.9	198.8	242.3	289.2	311.4
80°	128.0	146.7	193.6	234.6	253.4
82.5°	79.3	99.0	142.5	180.8	197.1
85°	39.2	56.3	87.0	103.2	107.5
87.5°	11.9	17.9	27.3	35.8	40.9
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	16.53	18.19	16.89	18.50	18.82	17.35	19.01	17.71	19.33	19.64
	3H	18.28	19.79	18.66	20.11	20.47	19.50	21.00	19.87	21.33	21.69
	4H	18.89	20.32	19.29	20.66	21.04	20.41	21.83	20.81	22.18	22.55
	6H	19.30	20.62	19.71	20.98	21.37	21.21	22.53	21.62	22.90	23.29
	8H	19.40	20.66	19.82	21.05	21.45	21.53	22.80	21.96	23.19	23.58
	12H	19.44	20.66	19.87	21.04	21.47	21.74	22.95	22.17	23.33	23.76
4H	2H	17.32	18.74	17.71	19.09	19.46	17.95	19.38	18.35	19.72	20.10
	3H	19.29	20.49	19.70	20.89	21.29	20.33	21.53	20.74	21.93	22.33
	4H	20.02	21.11	20.45	21.52	21.96	21.40	22.49	21.83	22.90	23.34
	6H	20.54	21.50	21.00	21.93	22.39	22.37	23.32	22.82	23.76	24.21
	8H	20.68	21.58	21.14	22.02	22.48	22.77	23.66	23.22	24.10	24.56
	12H	20.76	21.56	21.24	22.04	22.51	23.03	23.84	23.51	24.31	24.78
8H	4H	20.49	21.38	20.95	21.82	22.29	21.69	22.58	22.15	23.02	23.49
	6H	21.14	21.89	21.64	22.37	22.85	22.82	23.56	23.31	24.05	24.52
	8H	21.35	22.02	21.86	22.52	23.01	23.32	23.99	23.83	24.50	24.98
	12H	21.48	22.07	21.98	22.56	23.12	23.69	24.28	24.20	24.77	25.33
12H	4H	20.58	21.38	21.06	21.86	22.33	21.72	22.52	22.19	22.99	23.46
	6H	21.28	21.95	21.79	22.46	22.94	22.86	23.54	23.37	24.04	24.52
	8H	21.56	22.15	22.06	22.64	23.20	23.44	24.03	23.94	24.52	25.08