

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: P1586648

Luminaire Tested: 22CZSP-A-42-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586648
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-A-42-L945-S
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 4000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

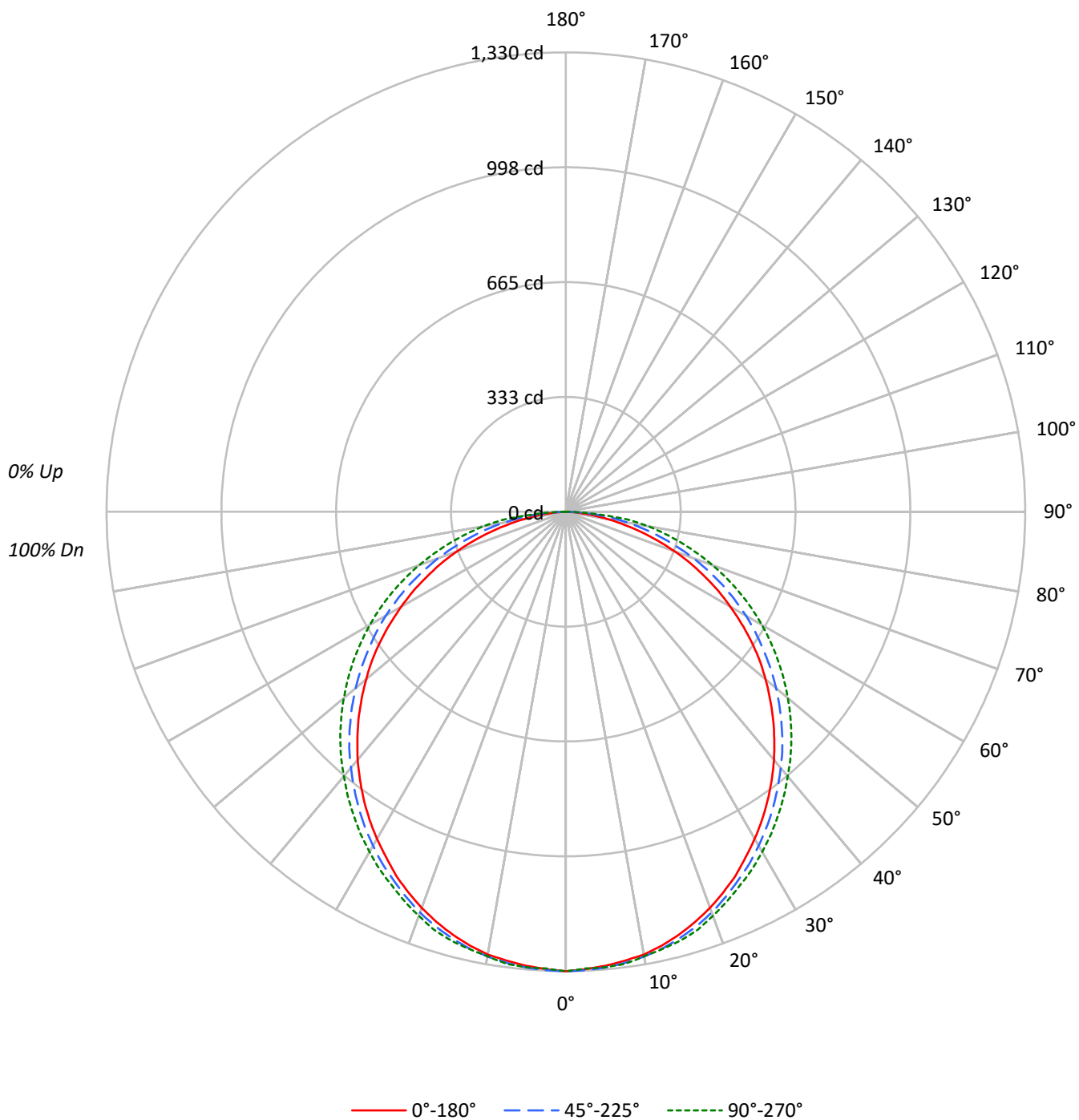
Lumens per Lamp: N/A
Luminaire Lumens: 3884.0 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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			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°	4166	4166	4166
5°	4147	4163	4160
10°	4138	4157	4154
15°	4108	4141	4166
20°	4067	4115	4149
25°	4016	4072	4123
30°	3953	4037	4111
35°	3896	3997	4098
40°	3832	3958	4086
45°	3759	3917	4091
50°	3678	3869	4090
55°	3582	3816	4094
60°	3448	3773	4105
65°	3290	3700	4117
70°	3066	3597	4135
75°	2732	3454	4176
80°	2259	3289	4380
85°	1469	2971	3826

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4517 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.8	3.2
10°-20°	360.3	9.3
20°-30°	543.3	14.0
30°-40°	654.5	16.8
40°-50°	683.5	17.6
50°-60°	627.7	16.2
60°-70°	494.4	12.7
70°-80°	303.3	7.8
80°-90°	91.3	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°	1029.4	26.5
0°-40°	1683.9	43.4
0°-60°	2995.0	77.1
0°-90°	3884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3884.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1330	1330	1330	1330	1330	
5°	1319	1321	1324	1329	1324	125
15°	1267	1270	1278	1285	1285	357
25°	1162	1165	1179	1193	1193	535
35°	1019	1024	1046	1067	1072	638
45°	849	858	885	915	924	654
55°	656	668	699	738	750	586
65°	444	459	499	541	556	439
75°	226	244	286	331	345	239
85°	41	56	83	105	106	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1330.4	1330.4	1330.4	1330.4	1330.4
2.5°	1325.3	1327.8	1328.7	1329.5	1323.6
5°	1319.3	1321.0	1324.4	1328.7	1323.6
7.5°	1310.8	1312.5	1316.7	1322.7	1320.1
10°	1301.4	1302.2	1307.4	1311.6	1306.5
12.5°	1286.1	1288.6	1294.6	1298.0	1296.3
15°	1267.3	1269.9	1277.5	1285.2	1285.2
17.5°	1245.1	1248.6	1257.9	1268.2	1269.0
20°	1220.4	1223.0	1234.9	1245.1	1245.1
22.5°	1192.3	1195.7	1207.6	1218.7	1220.4
25°	1162.5	1165.0	1178.7	1193.2	1193.2
27.5°	1127.5	1132.6	1149.7	1164.2	1167.6
30°	1093.4	1097.7	1116.5	1134.4	1136.9
32.5°	1057.7	1062.8	1082.4	1102.0	1106.2
35°	1019.3	1024.4	1045.7	1067.0	1072.1
37.5°	979.2	985.2	1007.4	1032.1	1037.2
40°	937.5	944.3	968.2	994.6	999.7
42.5°	893.2	902.5	928.1	955.4	963.1
45°	848.8	858.2	884.6	915.3	923.8
47.5°	802.0	813.1	840.3	872.7	882.1
50°	755.1	766.2	794.3	829.2	839.5
52.5°	707.4	718.5	747.4	784.1	795.2
55°	656.2	668.2	698.9	738.1	750.0
57.5°	603.4	618.7	651.1	691.2	703.1
60°	550.6	565.9	602.5	641.7	655.4
62.5°	498.6	513.1	550.6	592.3	606.8
65°	444.0	459.4	499.4	541.2	555.7
67.5°	390.3	405.7	445.7	489.2	504.5
70°	334.9	352.0	392.9	436.4	451.7
72.5°	279.5	297.4	339.2	383.5	398.0
75°	225.8	243.7	285.5	330.7	345.2
77.5°	173.0	192.6	233.5	279.5	293.2
80°	125.3	144.0	182.4	227.6	242.9
82.5°	80.1	96.3	134.7	177.3	188.3
85°	40.9	56.2	82.7	104.8	106.5
87.5°	12.8	17.9	27.3	40.9	41.8
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	16.44	18.10	16.80	18.41	18.73	17.27	18.93	17.63	19.24	19.56
	3H	18.19	19.70	18.57	20.02	20.38	19.38	20.89	19.76	21.22	21.58
	4H	18.81	20.23	19.21	20.58	20.95	20.27	21.69	20.67	22.04	22.42
	6H	19.22	20.54	19.63	20.90	21.29	21.05	22.37	21.46	22.74	23.13
	8H	19.33	20.59	19.75	20.98	21.38	21.37	22.64	21.80	23.02	23.42
	12H	19.38	20.59	19.81	20.97	21.40	21.58	22.79	22.01	23.18	23.60
4H	2H	17.21	18.63	17.60	18.98	19.35	17.85	19.28	18.25	19.62	20.00
	3H	19.18	20.38	19.59	20.78	21.18	20.21	21.41	20.62	21.80	22.20
	4H	19.92	21.01	20.35	21.42	21.85	21.26	22.35	21.69	22.76	23.19
	6H	20.45	21.40	20.90	21.84	22.30	22.21	23.17	22.67	23.61	24.06
	8H	20.60	21.49	21.05	21.93	22.39	22.61	23.50	23.07	23.94	24.41
	12H	20.68	21.48	21.16	21.96	22.43	22.89	23.69	23.37	24.17	24.63
8H	4H	20.38	21.27	20.84	21.71	22.18	21.55	22.44	22.01	22.88	23.35
	6H	21.04	21.79	21.53	22.27	22.75	22.66	23.41	23.15	23.89	24.37
	8H	21.25	21.92	21.76	22.43	22.91	23.17	23.84	23.68	24.35	24.83
	12H	21.39	21.98	21.90	22.47	23.03	23.56	24.15	24.06	24.64	25.20
12H	4H	20.47	21.27	20.95	21.75	22.22	21.57	22.38	22.05	22.85	23.32
	6H	21.17	21.84	21.68	22.35	22.83	22.71	23.38	23.22	23.88	24.37
	8H	21.45	22.04	21.96	22.53	23.09	23.29	23.88	23.79	24.37	24.93