

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: P1586409

Luminaire Tested: 22CZSP-42-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586409
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-42-L945
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 4000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

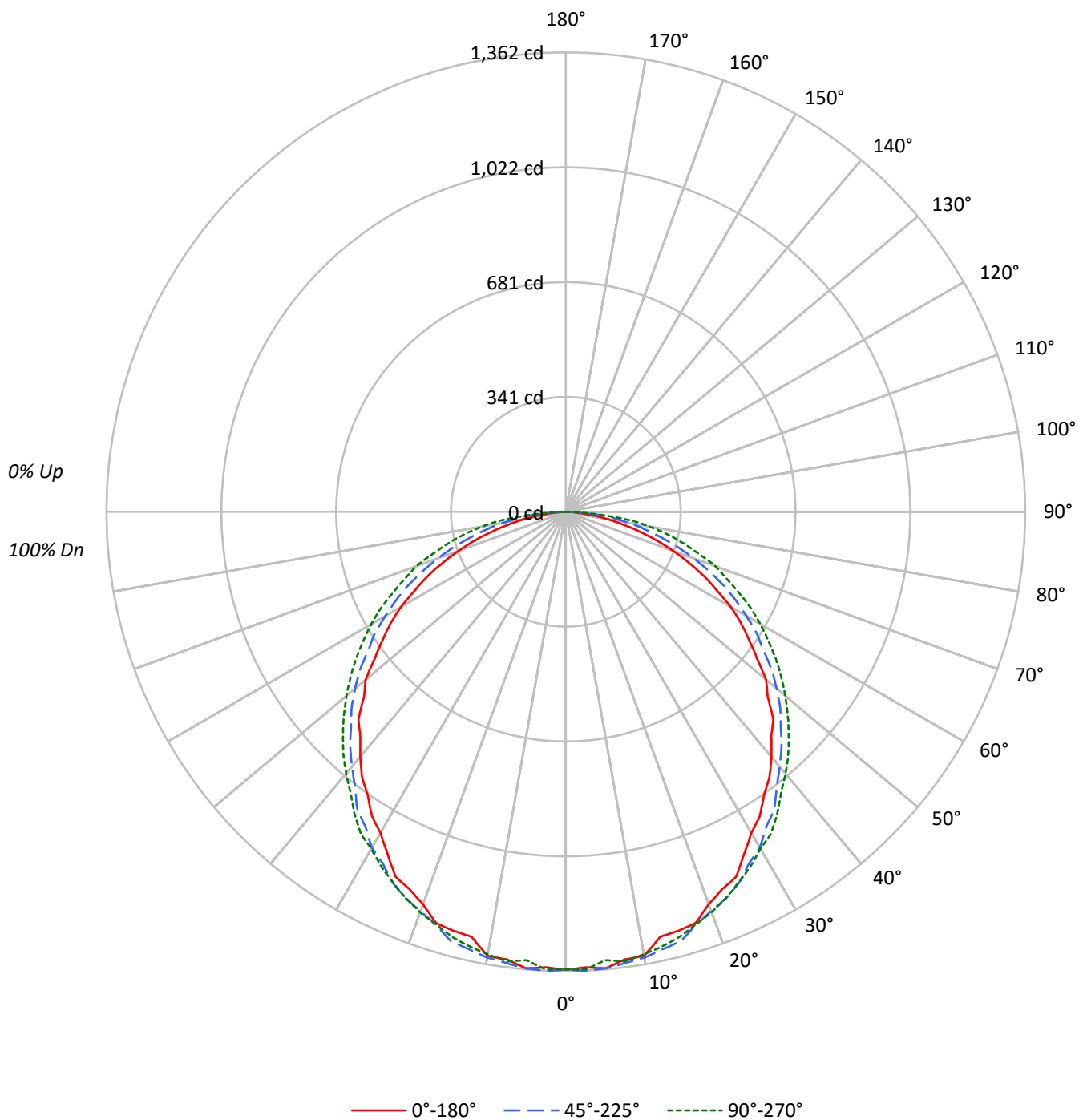
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3963.0 lumens
Efficiency: N/A
Efficacy: 137.1 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			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°	4250	4250	4250
5°	4272	4272	4195
10°	4251	4267	4235
15°	4170	4271	4230
20°	4126	4199	4210
25°	4126	4196	4190
30°	3976	4159	4171
35°	3916	4119	4177
40°	3876	4032	4142
45°	3851	3990	4139
50°	3775	3973	4138
55°	3622	3899	4148
60°	3536	3869	4171
65°	3356	3814	4183
70°	3095	3691	4325
75°	2750	3528	4366
80°	2287	3460	4526
85°	1398	3097	3826

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4683 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.7	3.2
10°-20°	367.8	9.3
20°-30°	554.8	14.0
30°-40°	666.3	16.8
40°-50°	695.5	17.6
50°-60°	640.4	16.2
60°-70°	505.7	12.8
70°-80°	311.4	7.9
80°-90°	92.3	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°	1051.3	26.5
0°-40°	1717.6	43.3
0°-60°	3053.5	77.1
0°-90°	3963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3963.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1357	1357	1357	1357	1357	
5°	1359	1346	1359	1361	1334	128
15°	1286	1304	1318	1312	1305	363
25°	1194	1203	1214	1209	1213	544
35°	1024	1043	1078	1083	1093	644
45°	870	876	901	920	935	665
55°	664	681	714	746	760	596
65°	453	469	515	552	565	446
75°	227	249	292	338	361	241
85°	39	56	86	102	106	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1357.3	1357.3	1357.3	1357.3	1357.3
2.5°	1352.3	1366.6	1362.4	1364.9	1358.2
5°	1359.0	1345.5	1359.0	1360.7	1334.5
7.5°	1338.7	1340.4	1349.7	1352.3	1344.6
10°	1337.0	1342.1	1342.1	1333.7	1332.0
12.5°	1290.6	1315.9	1328.6	1334.5	1320.1
15°	1286.3	1304.1	1317.6	1311.7	1304.9
17.5°	1278.7	1273.7	1283.0	1289.7	1282.1
20°	1238.2	1246.6	1260.1	1261.8	1263.5
22.5°	1211.1	1213.6	1240.7	1243.2	1239.8
25°	1194.2	1202.7	1214.5	1209.4	1212.8
27.5°	1144.3	1164.6	1175.6	1185.8	1185.8
30°	1099.6	1123.2	1150.3	1153.6	1153.6
32.5°	1070.0	1086.0	1106.3	1113.1	1131.7
35°	1024.3	1042.9	1077.6	1082.6	1092.8
37.5°	992.2	1010.8	1026.9	1044.6	1048.8
40°	948.3	967.7	986.3	1006.6	1013.3
42.5°	901.8	922.1	946.6	967.7	976.2
45°	869.7	876.4	900.9	920.4	934.7
47.5°	811.4	830.8	862.1	886.6	892.5
50°	775.0	782.6	815.6	848.5	849.4
52.5°	714.2	737.0	769.1	800.4	804.6
55°	663.5	681.2	714.2	746.3	759.8
57.5°	616.1	629.6	671.9	704.0	711.6
60°	564.6	578.9	617.8	655.0	666.0
62.5°	504.6	524.8	567.1	602.6	617.8
65°	453.0	469.1	514.7	551.9	564.6
67.5°	394.7	416.7	459.8	501.2	514.7
70°	338.1	360.0	403.1	446.2	472.4
72.5°	282.3	305.1	348.2	398.1	412.4
75°	227.3	249.3	291.6	338.1	360.9
77.5°	173.3	196.9	240.0	286.5	308.5
80°	126.8	145.4	191.9	232.4	251.0
82.5°	78.6	98.0	141.1	179.2	195.2
85°	38.9	55.8	86.2	102.3	106.5
87.5°	11.8	17.7	27.0	35.5	40.6
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	16.49	18.16	16.86	18.47	18.78	17.32	18.98	17.68	19.29	19.61
	3H	18.25	19.76	18.62	20.08	20.44	19.46	20.97	19.84	21.30	21.66
	4H	18.86	20.28	19.26	20.63	21.01	20.38	21.80	20.78	22.15	22.52
	6H	19.26	20.59	19.67	20.95	21.34	21.18	22.50	21.59	22.86	23.25
	8H	19.37	20.63	19.79	21.02	21.42	21.50	22.76	21.92	23.15	23.55
	12H	19.41	20.62	19.84	21.00	21.43	21.71	22.92	22.14	23.30	23.73
4H	2H	17.28	18.71	17.68	19.05	19.43	17.92	19.34	18.32	19.69	20.07
	3H	19.26	20.46	19.67	20.85	21.25	20.30	21.50	20.71	21.90	22.30
	4H	19.99	21.08	20.42	21.49	21.92	21.37	22.46	21.80	22.87	23.30
	6H	20.51	21.46	20.96	21.90	22.36	22.34	23.29	22.79	23.73	24.18
	8H	20.65	21.54	21.11	21.98	22.45	22.73	23.63	23.19	24.07	24.53
	12H	20.73	21.53	21.21	22.00	22.47	23.00	23.80	23.48	24.28	24.75
8H	4H	20.46	21.35	20.91	21.79	22.25	21.66	22.55	22.12	22.99	23.46
	6H	21.11	21.86	21.60	22.34	22.82	22.78	23.53	23.28	24.01	24.49
	8H	21.32	21.98	21.82	22.49	22.97	23.29	23.96	23.80	24.46	24.95
	12H	21.45	22.04	21.95	22.53	23.09	23.66	24.25	24.17	24.74	25.30
12H	4H	20.55	21.35	21.03	21.83	22.29	21.68	22.49	22.16	22.96	23.43
	6H	21.25	21.92	21.76	22.42	22.91	22.83	23.50	23.34	24.01	24.49
	8H	21.52	22.11	22.03	22.60	23.16	23.41	24.00	23.91	24.49	25.05