

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: P1586639

Luminaire Tested: 22CZSP-A-42-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586639
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-L845
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 4000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

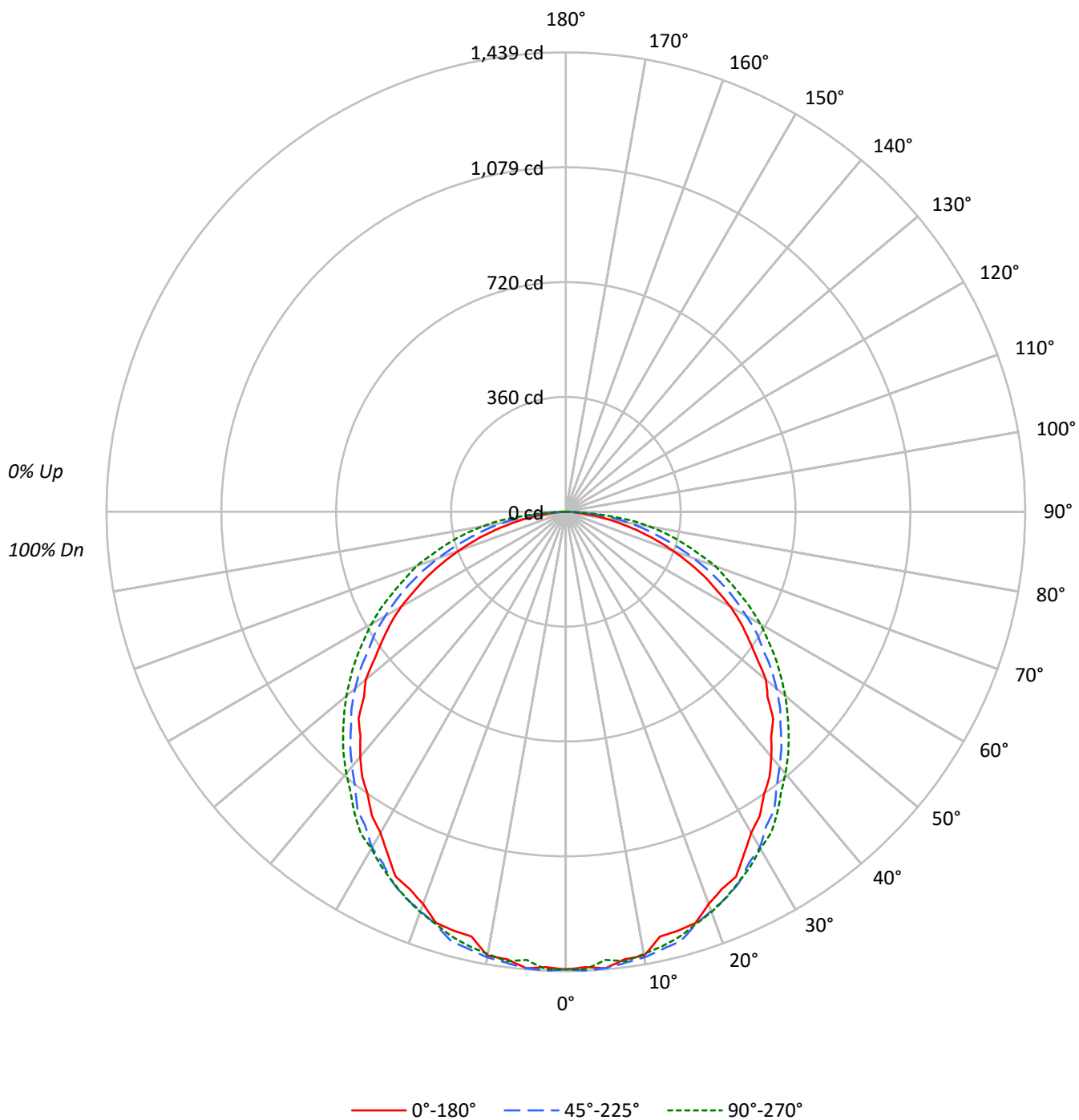
Lumens per Lamp: N/A
Luminaire Lumens: 4185.0 lumens
Efficiency: N/A
Efficacy: 144.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	50	30	10
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°	4488	4488	4488
5°	4511	4511	4430
10°	4489	4506	4472
15°	4404	4511	4467
20°	4357	4434	4446
25°	4357	4431	4425
30°	4198	4392	4405
35°	4135	4350	4411
40°	4093	4258	4374
45°	4067	4213	4371
50°	3987	4196	4370
55°	3825	4117	4381
60°	3734	4086	4405
65°	3545	4027	4417
70°	3268	3897	4568
75°	2905	3725	4611
80°	2415	3653	4780
85°	1477	3269	4042

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4947 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.9	3.2
10°-20°	388.4	9.3
20°-30°	585.8	14.0
30°-40°	703.6	16.8
40°-50°	734.5	17.6
50°-60°	676.3	16.2
60°-70°	534.0	12.8
70°-80°	328.9	7.9
80°-90°	97.5	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°	1110.2	26.5
0°-40°	1813.8	43.3
0°-60°	3224.6	77.1
0°-90°	4185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4185.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1433	1433	1433	1433	1433	
5°	1435	1421	1435	1437	1409	136
15°	1358	1377	1391	1385	1378	384
25°	1261	1270	1282	1277	1281	575
35°	1082	1101	1138	1143	1154	680
45°	918	926	951	972	987	702
55°	701	719	754	788	802	629
65°	478	495	544	583	596	471
75°	240	263	308	357	381	255
85°	41	59	91	108	112	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1433.4	1433.4	1433.4	1433.4	1433.4
2.5°	1428.0	1443.2	1438.7	1441.4	1434.3
5°	1435.1	1420.9	1435.1	1436.9	1409.3
7.5°	1413.7	1415.5	1425.3	1428.0	1420.0
10°	1411.9	1417.3	1417.3	1408.4	1406.6
12.5°	1362.9	1389.6	1403.0	1409.3	1394.1
15°	1358.4	1377.1	1391.4	1385.2	1378.0
17.5°	1350.4	1345.0	1354.8	1362.0	1353.9
20°	1307.5	1316.4	1330.7	1332.5	1334.3
22.5°	1279.0	1281.6	1310.2	1312.9	1309.3
25°	1261.1	1270.0	1282.5	1277.2	1280.7
27.5°	1208.5	1229.9	1241.5	1252.2	1252.2
30°	1161.1	1186.1	1214.7	1218.3	1218.3
32.5°	1129.9	1146.9	1168.3	1175.4	1195.1
35°	1081.7	1101.3	1137.9	1143.3	1154.0
37.5°	1047.8	1067.4	1084.4	1103.1	1107.6
40°	1001.4	1021.9	1041.6	1063.0	1070.1
42.5°	952.3	973.7	999.6	1021.9	1030.8
45°	918.4	925.5	951.4	971.9	987.1
47.5°	856.8	877.3	910.4	936.2	942.5
50°	818.4	826.5	861.3	896.1	897.0
52.5°	754.2	778.3	812.2	845.2	849.7
55°	700.6	719.4	754.2	788.1	802.4
57.5°	650.6	664.9	709.5	743.5	751.5
60°	596.2	611.4	652.4	691.7	703.3
62.5°	532.8	554.2	598.9	636.4	652.4
65°	478.4	495.3	543.5	582.8	596.2
67.5°	416.8	440.0	485.5	529.3	543.5
70°	357.0	380.2	425.7	471.2	498.9
72.5°	298.1	322.2	367.7	420.4	435.5
75°	240.1	263.3	307.9	357.0	381.1
77.5°	183.0	208.0	253.5	302.6	325.8
80°	133.9	153.5	202.6	245.4	265.1
82.5°	83.0	103.5	149.0	189.2	206.2
85°	41.1	58.9	91.0	108.0	112.5
87.5°	12.5	18.7	28.6	37.5	42.8
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	16.68	18.35	17.05	18.66	18.97	17.51	19.17	17.87	19.48	19.80
	3H	18.44	19.94	18.81	20.27	20.63	19.65	21.16	20.03	21.49	21.85
	4H	19.05	20.47	19.45	20.82	21.19	20.57	21.99	20.96	22.34	22.71
	6H	19.45	20.77	19.86	21.14	21.53	21.37	22.69	21.78	23.05	23.44
	8H	19.56	20.82	19.98	21.21	21.61	21.69	22.95	22.11	23.34	23.74
	12H	19.60	20.81	20.03	21.19	21.62	21.90	23.11	22.33	23.49	23.92
4H	2H	17.47	18.90	17.87	19.24	19.62	18.11	19.53	18.51	19.88	20.26
	3H	19.45	20.65	19.86	21.04	21.44	20.49	21.69	20.90	22.09	22.49
	4H	20.18	21.27	20.61	21.68	22.11	21.56	22.65	21.99	23.06	23.49
	6H	20.70	21.65	21.15	22.09	22.55	22.53	23.48	22.98	23.92	24.37
	8H	20.84	21.73	21.30	22.17	22.64	22.92	23.82	23.38	24.26	24.72
	12H	20.92	21.72	21.39	22.19	22.66	23.19	23.99	23.67	24.47	24.94
8H	4H	20.65	21.54	21.10	21.98	22.44	21.85	22.74	22.31	23.18	23.65
	6H	21.30	22.05	21.79	22.53	23.01	22.97	23.72	23.46	24.20	24.68
	8H	21.51	22.17	22.01	22.68	23.16	23.48	24.15	23.99	24.65	25.14
	12H	21.64	22.23	22.14	22.72	23.28	23.85	24.44	24.35	24.93	25.49
12H	4H	20.74	21.54	21.22	22.01	22.48	21.87	22.68	22.35	23.15	23.62
	6H	21.44	22.11	21.95	22.61	23.10	23.02	23.69	23.53	24.20	24.68
	8H	21.71	22.30	22.22	22.79	23.35	23.60	24.19	24.10	24.68	25.24