

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: P1586666

Luminaire Tested: 22CZSP-A-43HE-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586666
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-43HE-L940-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

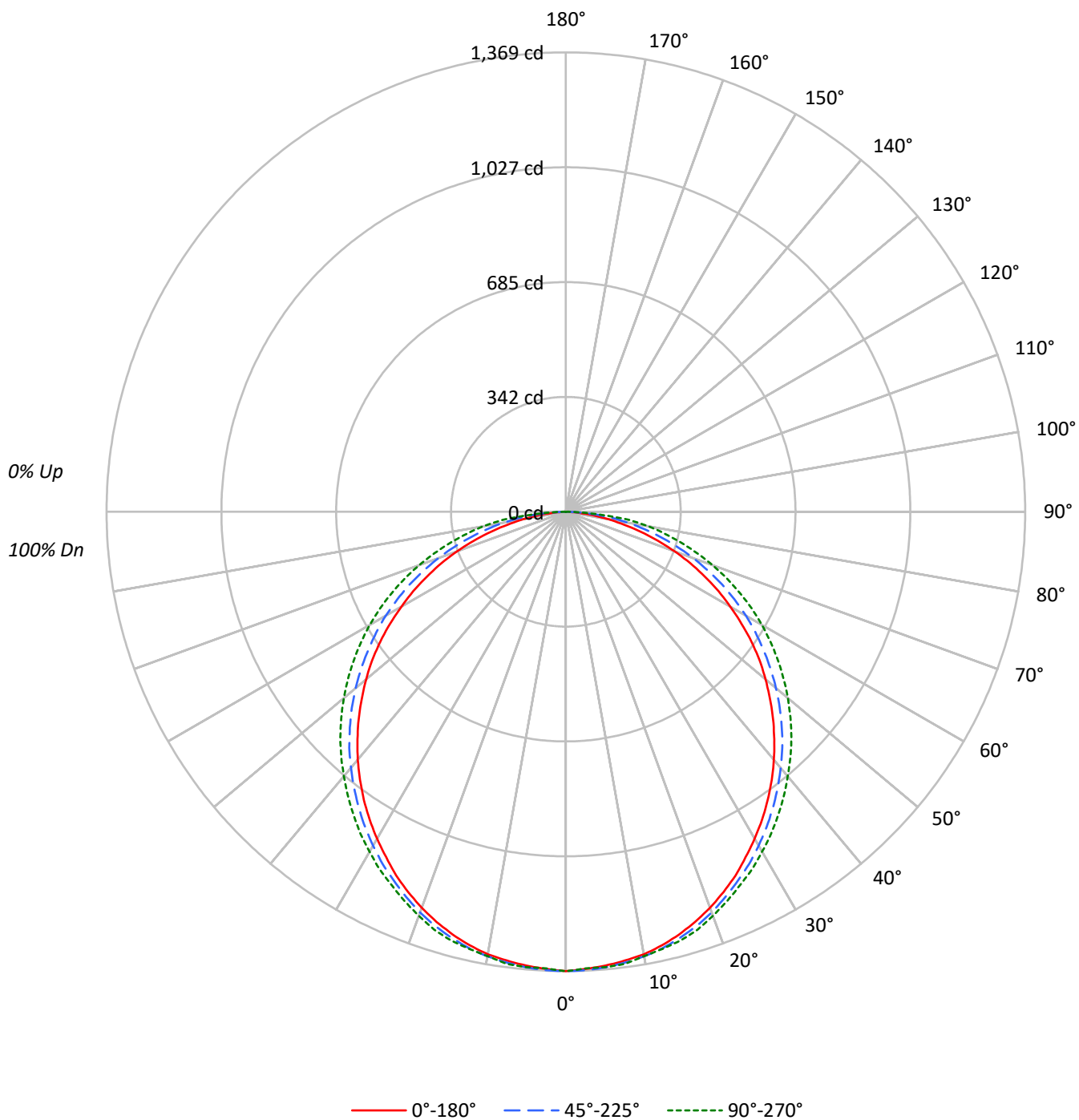
Lumens per Lamp: N/A
Luminaire Lumens: 3997.0 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.2
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°	4287	4287	4287
5°	4268	4284	4281
10°	4258	4278	4275
15°	4228	4262	4288
20°	4185	4235	4270
25°	4133	4191	4242
30°	4069	4154	4230
35°	4010	4114	4218
40°	3944	4073	4205
45°	3868	4032	4210
50°	3786	3982	4208
55°	3687	3926	4213
60°	3548	3883	4224
65°	3385	3808	4237
70°	3156	3702	4255
75°	2812	3555	4297
80°	2324	3385	4508
85°	1513	3057	3938

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4649 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	3.2
10°-20°	370.8	9.3
20°-30°	559.2	14.0
30°-40°	673.5	16.8
40°-50°	703.4	17.6
50°-60°	646.0	16.2
60°-70°	508.8	12.7
70°-80°	312.1	7.8
80°-90°	93.9	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°	1059.4	26.5
0°-40°	1732.9	43.4
0°-60°	3082.2	77.1
0°-90°	3997.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3997.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1369	1369	1369	1369	1369	
5°	1358	1359	1363	1367	1362	129
15°	1304	1307	1315	1323	1323	368
25°	1196	1199	1213	1228	1228	551
35°	1049	1054	1076	1098	1103	656
45°	874	883	910	942	951	674
55°	675	688	719	760	772	603
65°	457	473	514	557	572	452
75°	232	251	294	340	355	246
85°	42	58	85	108	110	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1369.1	1369.1	1369.1	1369.1	1369.1
2.5°	1363.8	1366.4	1367.3	1368.2	1362.1
5°	1357.7	1359.4	1362.9	1367.3	1362.1
7.5°	1348.9	1350.7	1355.0	1361.2	1358.6
10°	1339.3	1340.1	1345.4	1349.8	1344.5
12.5°	1323.5	1326.1	1332.2	1335.8	1334.0
15°	1304.2	1306.8	1314.7	1322.6	1322.6
17.5°	1281.4	1284.9	1294.5	1305.1	1305.9
20°	1255.9	1258.6	1270.8	1281.4	1281.4
22.5°	1227.0	1230.5	1242.8	1254.2	1255.9
25°	1196.3	1198.9	1213.0	1227.9	1227.9
27.5°	1160.3	1165.6	1183.1	1198.1	1201.6
30°	1125.3	1129.6	1148.9	1167.4	1170.0
32.5°	1088.4	1093.7	1113.9	1134.0	1138.4
35°	1049.0	1054.2	1076.1	1098.1	1103.3
37.5°	1007.7	1013.9	1036.7	1062.1	1067.4
40°	964.8	971.8	996.3	1023.5	1028.8
42.5°	919.2	928.8	955.1	983.2	991.1
45°	873.5	883.2	910.4	942.0	950.7
47.5°	825.3	836.7	864.8	898.1	907.7
50°	777.1	788.5	817.4	853.4	863.9
52.5°	728.0	739.4	769.2	806.9	818.3
55°	675.3	687.6	719.2	759.5	771.8
57.5°	621.0	636.7	670.1	711.3	723.6
60°	566.6	582.4	620.1	660.4	674.5
62.5°	513.1	528.0	566.6	609.6	624.5
65°	456.9	472.7	514.0	556.9	571.8
67.5°	401.7	417.5	458.7	503.4	519.2
70°	344.7	362.2	404.3	449.1	464.8
72.5°	287.7	306.1	349.1	394.7	409.6
75°	232.4	250.8	293.8	340.3	355.2
77.5°	178.0	198.2	240.3	287.7	301.7
80°	128.9	148.2	187.7	234.2	250.0
82.5°	82.4	99.1	138.6	182.4	193.8
85°	42.1	57.9	85.1	107.9	109.6
87.5°	13.2	18.4	28.1	42.1	43.0
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	18.20	16.90	18.51	18.83	17.37	19.03	17.73	19.34	19.66
	3H	18.29	19.80	18.67	20.12	20.48	19.48	20.99	19.86	21.32	21.68
	4H	18.91	20.33	19.31	20.68	21.05	20.37	21.79	20.77	22.14	22.52
	6H	19.32	20.64	19.73	21.00	21.39	21.15	22.47	21.56	22.84	23.23
	8H	19.43	20.69	19.85	21.08	21.48	21.47	22.73	21.90	23.12	23.52
	12H	19.48	20.69	19.91	21.07	21.50	21.68	22.89	22.11	23.28	23.70
4H	2H	17.31	18.73	17.70	19.08	19.45	17.95	19.38	18.35	19.72	20.10
	3H	19.28	20.48	19.69	20.88	21.28	20.31	21.51	20.72	21.90	22.30
	4H	20.02	21.11	20.45	21.52	21.95	21.36	22.45	21.79	22.86	23.29
	6H	20.55	21.50	21.00	21.94	22.40	22.31	23.27	22.77	23.70	24.16
	8H	20.70	21.59	21.15	22.03	22.49	22.71	23.60	23.17	24.04	24.51
	12H	20.78	21.58	21.26	22.06	22.53	22.99	23.79	23.47	24.26	24.73
8H	4H	20.48	21.37	20.94	21.81	22.28	21.65	22.54	22.11	22.98	23.45
	6H	21.14	21.89	21.63	22.37	22.85	22.76	23.51	23.25	23.99	24.47
	8H	21.35	22.02	21.86	22.52	23.01	23.27	23.94	23.78	24.45	24.93
	12H	21.49	22.08	22.00	22.57	23.13	23.66	24.25	24.16	24.74	25.30
12H	4H	20.57	21.37	21.05	21.85	22.32	21.67	22.48	22.15	22.95	23.42
	6H	21.27	21.94	21.78	22.45	22.93	22.81	23.48	23.32	23.98	24.47
	8H	21.55	22.14	22.06	22.63	23.19	23.39	23.98	23.89	24.47	25.03