

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: P1586417

Luminaire Tested: 22CZSP-43HE-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-668-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-43HE-L840
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

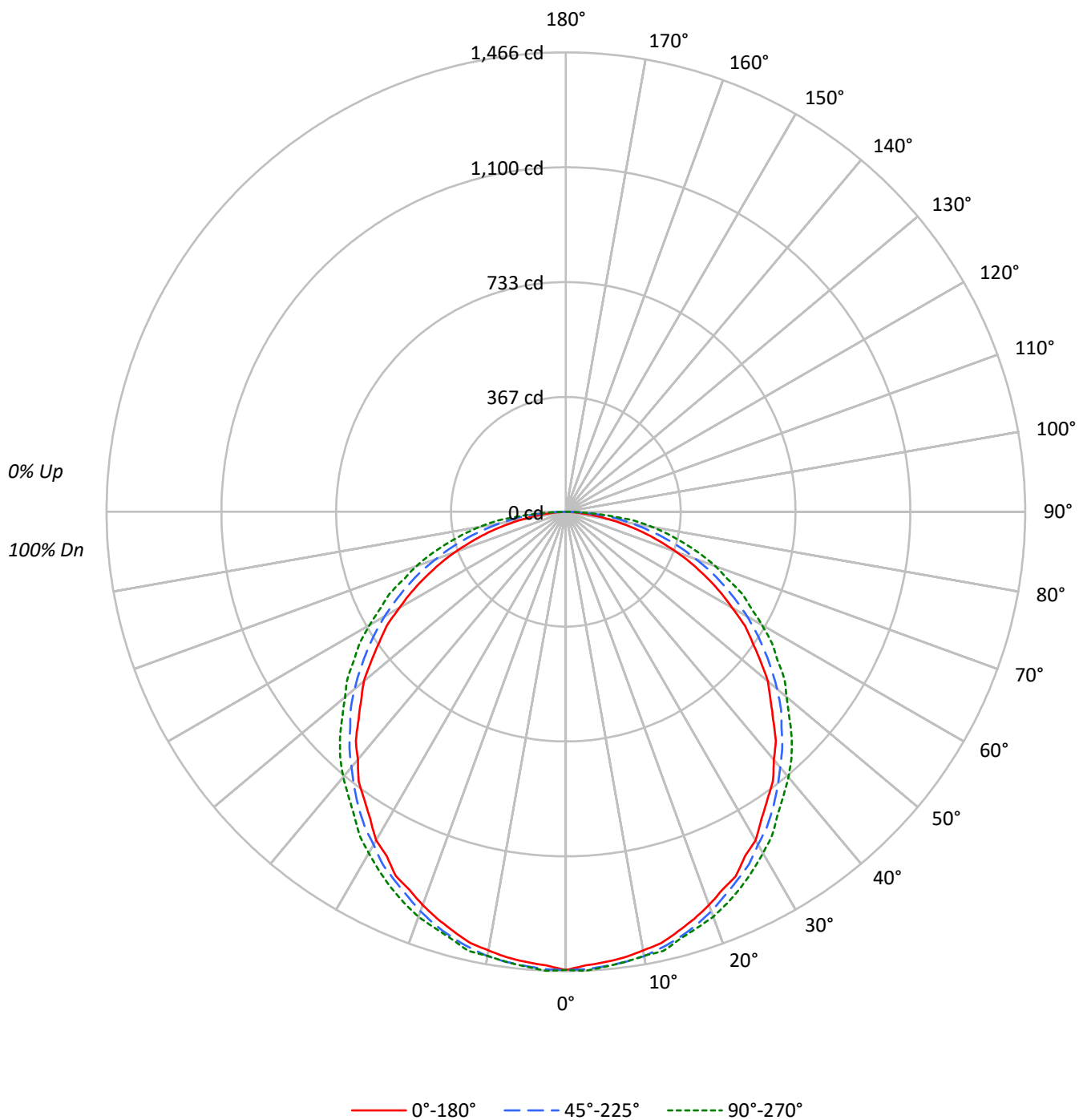
Lumens per Lamp: N/A
Luminaire Lumens: 4307.0 lumens
Efficiency: N/A
Efficacy: 152.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45		56	50	44		55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39		51	44	39		49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35		46	40	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4579	4579	4579
5°	4534	4576	4580
10°	4520	4578	4574
15°	4493	4557	4574
20°	4451	4522	4583
25°	4433	4479	4570
30°	4378	4435	4549
35°	4286	4406	4507
40°	4222	4351	4518
45°	4142	4311	4515
50°	4101	4287	4479
55°	3970	4229	4502
60°	3837	4183	4529
65°	3670	4119	4607
70°	3450	4040	4656
75°	3108	3968	4750
80°	2543	3895	5060
85°	1656	3880	4732

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5309 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.2	3.2
10°-20°	395.8	9.2
20°-30°	598.2	13.9
30°-40°	721.4	16.8
40°-50°	754.2	17.5
50°-60°	695.5	16.1
60°-70°	551.1	12.8
70°-80°	344.6	8.0
80°-90°	108.1	2.5
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°	1132.2	26.3
0°-40°	1853.6	43.0
0°-60°	3303.3	76.7
0°-90°	4307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4307.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1462	1462	1462	1462	1462	
5°	1442	1449	1456	1461	1457	137
15°	1386	1392	1406	1415	1411	391
25°	1283	1279	1296	1315	1323	588
35°	1121	1134	1153	1172	1179	703
45°	935	948	974	999	1020	724
55°	727	744	775	817	825	652
65°	495	516	556	599	622	491
75°	257	278	328	374	393	271
85°	46	66	108	126	132	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1462.3	1462.3	1462.3	1462.3	1462.3
2.5°	1449.1	1455.7	1460.9	1459.6	1466.2
5°	1442.5	1449.1	1455.7	1460.9	1457.0
7.5°	1434.6	1441.2	1449.1	1457.0	1449.1
10°	1421.4	1425.4	1439.9	1441.2	1438.6
12.5°	1409.6	1413.5	1424.1	1433.3	1435.9
15°	1385.9	1392.4	1405.6	1414.8	1410.9
17.5°	1362.1	1371.4	1383.2	1392.4	1392.4
20°	1335.8	1342.4	1356.9	1363.5	1375.3
22.5°	1305.5	1313.4	1325.3	1343.7	1350.3
25°	1283.1	1279.2	1296.3	1314.7	1322.6
27.5°	1238.3	1243.6	1267.3	1284.4	1291.0
30°	1210.7	1213.3	1226.5	1250.2	1258.1
32.5°	1161.9	1169.8	1193.5	1210.7	1225.1
35°	1121.1	1134.2	1152.7	1172.4	1179.0
37.5°	1085.5	1088.1	1109.2	1135.6	1140.8
40°	1032.8	1048.6	1064.4	1097.4	1105.3
42.5°	992.0	999.9	1022.3	1053.9	1065.7
45°	935.3	948.5	973.5	998.6	1019.6
47.5°	885.3	898.4	931.4	963.0	966.9
50°	841.8	847.1	880.0	915.6	919.5
52.5°	782.5	795.7	827.3	866.8	880.0
55°	727.2	744.3	774.6	816.8	824.7
57.5°	678.4	686.3	721.9	764.1	779.9
60°	612.6	635.0	667.9	708.7	723.2
62.5°	555.9	577.0	612.6	650.8	666.6
65°	495.3	516.4	555.9	599.4	621.8
67.5°	437.4	454.5	501.9	546.7	557.2
70°	376.8	396.5	441.3	487.4	508.5
72.5°	313.5	335.9	386.0	429.5	451.9
75°	256.9	278.0	328.0	374.1	392.6
77.5°	197.6	221.3	270.1	316.2	337.2
80°	141.0	164.7	216.0	262.2	280.6
82.5°	90.9	115.9	164.7	205.5	221.3
85°	46.1	65.9	108.0	126.5	131.7
87.5°	14.5	23.7	36.9	42.2	42.2
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	16.81	18.48	17.18	18.79	19.11	17.60	19.27	17.97	19.58	19.90
	3H	18.59	20.11	18.97	20.43	20.79	19.74	21.26	20.12	21.58	21.94
	4H	19.23	20.66	19.63	21.00	21.38	20.67	22.10	21.07	22.44	22.82
	6H	19.66	20.98	20.07	21.35	21.74	21.49	22.82	21.90	23.18	23.57
	8H	19.77	21.04	20.19	21.43	21.82	21.84	23.11	22.26	23.50	23.89
	12H	19.82	21.04	20.25	21.42	21.85	22.08	23.30	22.51	23.68	24.11
4H	2H	17.58	19.01	17.98	19.36	19.73	18.20	19.62	18.59	19.97	20.35
	3H	19.59	20.80	20.00	21.19	21.59	20.58	21.79	20.99	22.18	22.58
	4H	20.35	21.45	20.79	21.86	22.29	21.67	22.76	22.10	23.17	23.61
	6H	20.90	21.86	21.35	22.30	22.75	22.67	23.63	23.12	24.07	24.52
	8H	21.06	21.95	21.52	22.40	22.86	23.09	23.99	23.55	24.43	24.90
	12H	21.15	21.95	21.62	22.43	22.90	23.41	24.22	23.89	24.69	25.16
8H	4H	20.83	21.73	21.29	22.17	22.64	21.98	22.88	22.44	23.32	23.78
	6H	21.52	22.27	22.02	22.76	23.23	23.14	23.89	23.63	24.38	24.85
	8H	21.75	22.43	22.26	22.93	23.41	23.69	24.36	24.19	24.86	25.35
	12H	21.90	22.50	22.40	22.99	23.54	24.12	24.71	24.62	25.20	25.76
12H	4H	20.93	21.74	21.41	22.21	22.68	22.01	22.82	22.48	23.29	23.76
	6H	21.67	22.35	22.18	22.85	23.34	23.20	23.87	23.71	24.38	24.86
	8H	21.98	22.57	22.48	23.06	23.62	23.82	24.41	24.32	24.90	25.46