

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: P1586415

Luminaire Tested: 22CZSP-43HE-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586415
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-L835
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

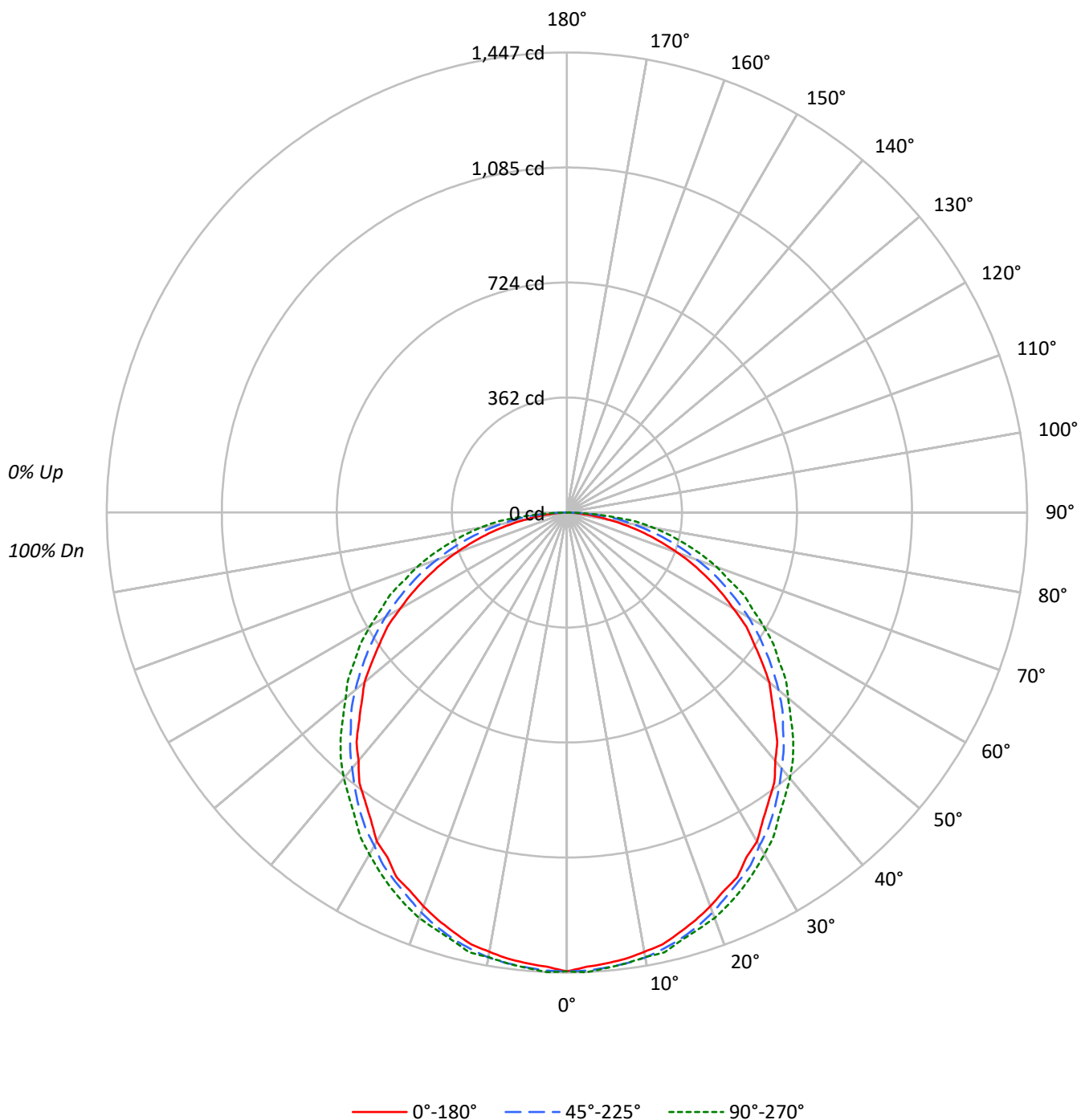
Lumens per Lamp: N/A
Luminaire Lumens: 4251.0 lumens
Efficiency: N/A
Efficacy: 150.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1586415

CATALOG NUMBER: 22CZSP-43HE-L835

Luminous Intensity Polar Plot



TEST NUMBER: P1586415

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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	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°	4519	4519	4519
5°	4475	4516	4520
10°	4461	4519	4514
15°	4434	4497	4514
20°	4393	4463	4523
25°	4375	4420	4510
30°	4320	4377	4490
35°	4230	4349	4448
40°	4167	4294	4459
45°	4088	4255	4457
50°	4047	4231	4421
55°	3918	4174	4443
60°	3786	4128	4470
65°	3622	4066	4547
70°	3405	3988	4595
75°	3067	3917	4688
80°	2508	3845	4993
85°	1635	3830	4671

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5239 cd/sqm

TEST NUMBER: P1586415

CATALOG NUMBER: 22CZSP-43HE-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	3.2
10°-20°	390.6	9.2
20°-30°	590.4	13.9
30°-40°	712.1	16.8
40°-50°	744.4	17.5
50°-60°	686.4	16.1
60°-70°	543.9	12.8
70°-80°	340.1	8.0
80°-90°	106.7	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°	1117.4	26.3
0°-40°	1829.5	43.0
0°-60°	3260.3	76.7
0°-90°	4251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4251.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1443	1443	1443	1443	1443	
5°	1424	1430	1437	1442	1438	135
15°	1368	1374	1387	1396	1392	386
25°	1266	1262	1279	1298	1305	581
35°	1106	1120	1138	1157	1164	694
45°	923	936	961	986	1006	715
55°	718	735	764	806	814	643
65°	489	510	549	592	614	484
75°	254	274	324	369	388	267
85°	46	65	107	125	130	60
90°	0	0	0	0	0	

TEST NUMBER: P1586415

CATALOG NUMBER: 22CZSP-43HE-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1443.3	1443.3	1443.3	1443.3	1443.3
2.5°	1430.3	1436.8	1442.0	1440.7	1447.2
5°	1423.8	1430.3	1436.8	1442.0	1438.1
7.5°	1415.9	1422.5	1430.3	1438.1	1430.3
10°	1402.9	1406.8	1421.2	1422.5	1419.8
12.5°	1391.2	1395.1	1405.5	1414.6	1417.2
15°	1367.8	1374.3	1387.3	1396.4	1392.5
17.5°	1344.4	1353.5	1365.2	1374.3	1374.3
20°	1318.4	1324.9	1339.2	1345.7	1357.4
22.5°	1288.5	1296.3	1308.0	1326.2	1332.7
25°	1266.4	1262.5	1279.4	1297.6	1305.4
27.5°	1222.2	1227.4	1250.8	1267.7	1274.2
30°	1194.9	1197.5	1210.5	1233.9	1241.7
32.5°	1146.8	1154.6	1178.0	1194.9	1209.2
35°	1106.5	1119.5	1137.7	1157.2	1163.7
37.5°	1071.4	1074.0	1094.8	1120.8	1126.0
40°	1019.4	1035.0	1050.6	1083.1	1090.9
42.5°	979.1	986.9	1009.0	1040.2	1051.9
45°	923.2	936.2	960.9	985.6	1006.4
47.5°	873.8	886.8	919.3	950.5	954.4
50°	830.8	836.0	868.6	903.7	907.6
52.5°	772.3	785.3	816.5	855.6	868.6
55°	717.7	734.6	764.5	806.1	813.9
57.5°	669.6	677.4	712.5	754.1	769.7
60°	604.6	626.7	659.2	699.5	713.8
62.5°	548.7	569.5	604.6	642.3	657.9
65°	488.9	509.7	548.7	591.6	613.7
67.5°	431.7	448.6	495.4	539.6	550.0
70°	371.9	391.4	435.6	481.1	501.9
72.5°	309.5	331.6	381.0	423.9	446.0
75°	253.5	274.3	323.8	369.3	387.5
77.5°	195.0	218.4	266.5	312.1	332.9
80°	139.1	162.5	213.2	258.7	276.9
82.5°	89.7	114.4	162.5	202.8	218.4
85°	45.5	65.0	106.6	124.8	130.0
87.5°	14.3	23.4	36.4	41.6	41.6
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1586415

CATALOG NUMBER: 22CZSP-43HE-L835

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	16.77	18.43	17.13	18.75	19.06	17.55	19.22	17.92	19.54	19.85
	3H	18.55	20.06	18.92	20.39	20.75	19.70	21.21	20.07	21.54	21.90
	4H	19.18	20.61	19.58	20.96	21.33	20.62	22.05	21.02	22.40	22.77
	6H	19.61	20.94	20.02	21.30	21.69	21.45	22.77	21.86	23.14	23.53
	8H	19.72	20.99	20.15	21.38	21.78	21.79	23.06	22.22	23.45	23.85
	12H	19.78	20.99	20.21	21.37	21.80	22.04	23.25	22.47	23.63	24.06
4H	2H	17.54	18.97	17.94	19.31	19.69	18.15	19.58	18.55	19.93	20.30
	3H	19.55	20.75	19.96	21.15	21.55	20.54	21.74	20.95	22.14	22.54
	4H	20.31	21.40	20.74	21.81	22.25	21.62	22.72	22.06	23.13	23.56
	6H	20.86	21.81	21.31	22.25	22.71	22.62	23.58	23.08	24.02	24.47
	8H	21.01	21.91	21.47	22.35	22.81	23.05	23.95	23.51	24.39	24.85
	12H	21.10	21.91	21.58	22.38	22.85	23.36	24.17	23.84	24.65	25.11
8H	4H	20.79	21.69	21.25	22.13	22.59	21.93	22.83	22.39	23.27	23.74
	6H	21.48	22.23	21.97	22.71	23.19	23.10	23.85	23.59	24.33	24.81
	8H	21.71	22.38	22.21	22.88	23.37	23.64	24.31	24.15	24.82	25.30
	12H	21.85	22.45	22.36	22.94	23.50	24.07	24.67	24.58	25.16	25.71
12H	4H	20.89	21.69	21.36	22.17	22.64	21.96	22.77	22.44	23.24	23.71
	6H	21.63	22.30	22.13	22.81	23.29	23.15	23.83	23.66	24.33	24.82
	8H	21.93	22.53	22.43	23.02	23.57	23.77	24.37	24.27	24.86	25.41