

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: P1586334

Luminaire Tested: 22CZSP-33HE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586334
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-33HE-L835-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 3000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

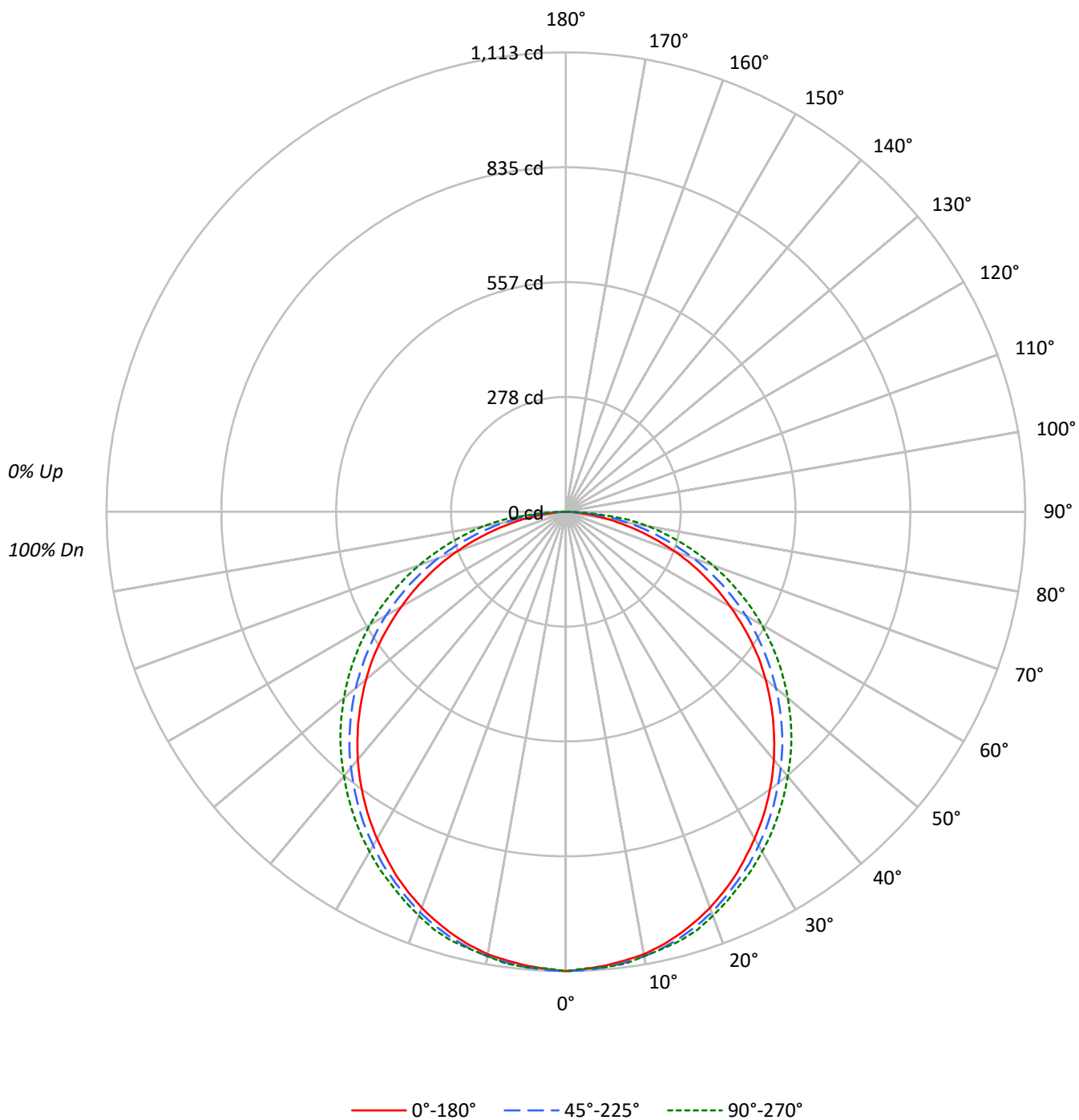
Lumens per Lamp: N/A
Luminaire Lumens: 3249.0 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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°	3485	3485	3485
5°	3469	3482	3480
10°	3461	3477	3475
15°	3437	3464	3485
20°	3402	3442	3471
25°	3360	3407	3448
30°	3307	3377	3439
35°	3260	3344	3429
40°	3206	3311	3419
45°	3145	3277	3422
50°	3077	3237	3421
55°	2997	3192	3425
60°	2884	3156	3433
65°	2752	3096	3444
70°	2565	3009	3459
75°	2285	2889	3493
80°	1890	2752	3664
85°	1229	2486	3201

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3781 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	3.2
10°-20°	301.4	9.3
20°-30°	454.5	14.0
30°-40°	547.4	16.8
40°-50°	571.7	17.6
50°-60°	525.1	16.2
60°-70°	413.6	12.7
70°-80°	253.7	7.8
80°-90°	76.4	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°	861.1	26.5
0°-40°	1408.6	43.4
0°-60°	2505.4	77.1
0°-90°	3249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3249.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1113	1113	1113	1113	1113	
5°	1104	1105	1108	1111	1107	105
15°	1060	1062	1069	1075	1075	299
25°	972	975	986	998	998	448
35°	853	857	875	893	897	533
45°	710	718	740	766	773	547
55°	549	559	585	617	627	490
65°	371	384	418	453	465	367
75°	189	204	239	277	289	200
85°	34	47	69	88	89	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1112.9	1112.9	1112.9	1112.9	1112.9
2.5°	1108.6	1110.7	1111.4	1112.2	1107.2
5°	1103.6	1105.0	1107.9	1111.4	1107.2
7.5°	1096.5	1097.9	1101.5	1106.5	1104.3
10°	1088.6	1089.3	1093.6	1097.2	1092.9
12.5°	1075.8	1077.9	1082.9	1085.8	1084.4
15°	1060.1	1062.3	1068.7	1075.1	1075.1
17.5°	1041.6	1044.4	1052.3	1060.8	1061.5
20°	1020.9	1023.0	1033.0	1041.6	1041.6
22.5°	997.4	1000.2	1010.2	1019.5	1020.9
25°	972.4	974.6	986.0	998.1	998.1
27.5°	943.2	947.5	961.7	973.8	976.7
30°	914.7	918.2	933.9	948.9	951.0
32.5°	884.7	889.0	905.4	921.8	925.4
35°	852.7	856.9	874.8	892.6	896.9
37.5°	819.1	824.1	842.7	863.3	867.6
40°	784.2	789.9	809.9	832.0	836.3
42.5°	747.1	755.0	776.4	799.2	805.6
45°	710.1	717.9	740.0	765.7	772.8
47.5°	670.9	680.1	702.9	730.0	737.9
50°	631.6	640.9	664.4	693.7	702.2
52.5°	591.7	601.0	625.2	655.9	665.2
55°	548.9	558.9	584.6	617.4	627.4
57.5°	504.7	517.6	544.7	578.2	588.2
60°	460.5	473.4	504.0	536.8	548.2
62.5°	417.1	429.2	460.5	495.5	507.6
65°	371.4	384.3	417.8	452.7	464.8
67.5°	326.5	339.4	372.9	409.2	422.0
70°	280.2	294.4	328.7	365.0	377.8
72.5°	233.8	248.8	283.7	320.8	332.9
75°	188.9	203.9	238.8	276.6	288.7
77.5°	144.7	161.1	195.3	233.8	245.2
80°	104.8	120.5	152.6	190.3	203.2
82.5°	67.0	80.6	112.6	148.3	157.6
85°	34.2	47.1	69.2	87.7	89.1
87.5°	10.7	15.0	22.8	34.2	34.9
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	15.82	17.48	16.18	17.79	18.11	16.65	18.31	17.01	18.62	18.94
	3H	17.57	19.08	17.95	19.40	19.76	18.76	20.27	19.14	20.60	20.96
	4H	18.19	19.61	18.59	19.96	20.33	19.65	21.07	20.05	21.42	21.79
	6H	18.60	19.92	19.01	20.28	20.67	20.43	21.75	20.84	22.12	22.51
	8H	18.71	19.97	19.13	20.36	20.76	20.75	22.01	21.18	22.40	22.80
	12H	18.76	19.97	19.19	20.35	20.78	20.96	22.17	21.39	22.56	22.98
4H	2H	16.59	18.01	16.99	18.36	18.73	17.23	18.66	17.63	19.00	19.38
	3H	18.56	19.76	18.97	20.16	20.56	19.59	20.79	20.00	21.18	21.58
	4H	19.30	20.39	19.73	20.80	21.23	20.64	21.73	21.07	22.14	22.57
	6H	19.83	20.78	20.28	21.22	21.68	21.59	22.54	22.05	22.98	23.44
	8H	19.98	20.87	20.43	21.31	21.77	21.99	22.88	22.45	23.32	23.79
	12H	20.06	20.86	20.54	21.34	21.81	22.27	23.07	22.75	23.54	24.01
8H	4H	19.76	20.65	20.22	21.09	21.56	20.93	21.82	21.39	22.26	22.73
	6H	20.42	21.17	20.91	21.65	22.13	22.04	22.79	22.53	23.27	23.75
	8H	20.63	21.30	21.14	21.81	22.29	22.55	23.22	23.06	23.73	24.21
	12H	20.77	21.36	21.28	21.85	22.41	22.94	23.53	23.44	24.02	24.58
12H	4H	19.85	20.65	20.33	21.13	21.60	20.95	21.76	21.43	22.23	22.70
	6H	20.55	21.22	21.06	21.73	22.21	22.09	22.76	22.60	23.26	23.75
	8H	20.83	21.42	21.34	21.91	22.47	22.67	23.26	23.17	23.75	24.31