

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: P1586580

Luminaire Tested: 22CZSP-A-33HE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586580
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-33HE-L850-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 3000 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

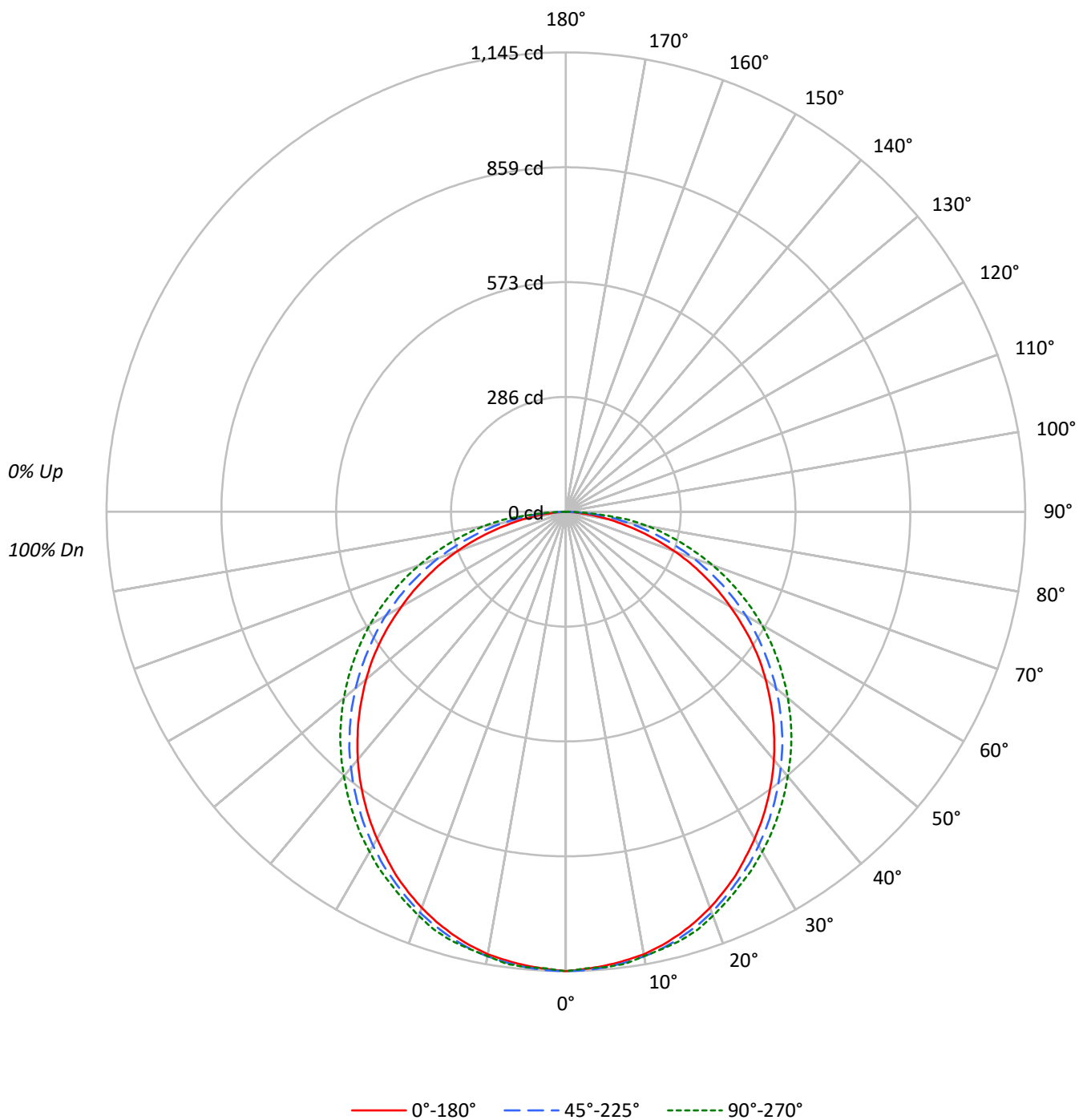
Lumens per Lamp: N/A
Luminaire Lumens: 3343.0 lumens
Efficiency: N/A
Efficacy: 154.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	3586	3586	3586
5°	3569	3583	3581
10°	3562	3578	3575
15°	3536	3565	3586
20°	3500	3542	3571
25°	3457	3505	3548
30°	3403	3474	3538
35°	3354	3441	3528
40°	3298	3406	3517
45°	3235	3372	3521
50°	3166	3331	3520
55°	3083	3284	3524
60°	2968	3248	3533
65°	2832	3185	3544
70°	2639	3096	3560
75°	2352	2973	3594
80°	1944	2831	3771
85°	1265	2558	3295

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3889 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	3.2
10°-20°	310.1	9.3
20°-30°	467.7	14.0
30°-40°	563.3	16.8
40°-50°	588.3	17.6
50°-60°	540.3	16.2
60°-70°	425.5	12.7
70°-80°	261.1	7.8
80°-90°	78.6	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°	886.0	26.5
0°-40°	1449.3	43.4
0°-60°	2577.9	77.1
0°-90°	3343.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3343.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1145	1145	1145	1145	1145	
5°	1136	1137	1140	1144	1139	108
15°	1091	1093	1100	1106	1106	308
25°	1001	1003	1014	1027	1027	461
35°	877	882	900	918	923	549
45°	731	739	761	788	795	563
55°	565	575	602	635	646	504
65°	382	395	430	466	478	378
75°	194	210	246	285	297	206
85°	35	48	71	90	92	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1140.7	1142.9	1143.6	1144.3	1139.2
5°	1135.5	1137.0	1139.9	1143.6	1139.2
7.5°	1128.2	1129.7	1133.3	1138.5	1136.3
10°	1120.1	1120.9	1125.3	1128.9	1124.5
12.5°	1106.9	1109.1	1114.3	1117.2	1115.7
15°	1090.8	1093.0	1099.6	1106.2	1106.2
17.5°	1071.7	1074.6	1082.7	1091.5	1092.3
20°	1050.4	1052.6	1062.9	1071.7	1071.7
22.5°	1026.2	1029.2	1039.4	1049.0	1050.4
25°	1000.6	1002.8	1014.5	1027.0	1027.0
27.5°	970.5	974.9	989.6	1002.0	1005.0
30°	941.1	944.8	960.9	976.4	978.6
32.5°	910.3	914.7	931.6	948.5	952.1
35°	877.3	881.7	900.1	918.4	922.8
37.5°	842.8	848.0	867.1	888.3	892.7
40°	806.9	812.8	833.3	856.0	860.5
42.5°	768.8	776.8	798.8	822.3	828.9
45°	730.6	738.7	761.4	787.8	795.2
47.5°	690.3	699.8	723.3	751.2	759.2
50°	649.9	659.5	683.7	713.7	722.5
52.5°	608.8	618.4	643.3	674.9	684.4
55°	564.8	575.1	601.5	635.3	645.5
57.5°	519.4	532.6	560.4	594.9	605.2
60°	473.9	487.1	518.6	552.4	564.1
62.5°	429.1	441.6	473.9	509.8	522.3
65°	382.2	395.4	429.9	465.8	478.3
67.5°	336.0	349.2	383.6	421.1	434.3
70°	288.3	303.0	338.2	375.6	388.8
72.5°	240.6	256.0	292.0	330.1	342.6
75°	194.4	209.8	245.7	284.6	297.1
77.5°	148.9	165.8	201.0	240.6	252.3
80°	107.8	124.0	157.0	195.9	209.1
82.5°	69.0	82.9	115.9	152.6	162.1
85°	35.2	48.4	71.2	90.2	91.7
87.5°	11.0	15.4	23.5	35.2	35.9
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	15.91	17.58	16.28	17.89	18.21	16.74	18.41	17.11	18.72	19.04
	3H	17.67	19.18	18.05	19.50	19.86	18.86	20.37	19.24	20.69	21.05
	4H	18.29	19.71	18.69	20.06	20.43	19.75	21.17	20.15	21.52	21.89
	6H	18.70	20.02	19.11	20.38	20.77	20.53	21.85	20.94	22.22	22.61
	8H	18.81	20.07	19.23	20.46	20.86	20.85	22.11	21.28	22.50	22.90
	12H	18.86	20.07	19.29	20.45	20.88	21.06	22.27	21.49	22.65	23.08
4H	2H	16.69	18.11	17.08	18.46	18.83	17.33	18.76	17.73	19.10	19.48
	3H	18.66	19.86	19.07	20.26	20.66	19.69	20.89	20.10	21.28	21.68
	4H	19.40	20.49	19.83	20.90	21.33	20.74	21.83	21.17	22.24	22.67
	6H	19.93	20.88	20.38	21.32	21.78	21.69	22.64	22.14	23.08	23.54
	8H	20.08	20.97	20.53	21.41	21.87	22.09	22.98	22.55	23.42	23.89
	12H	20.16	20.96	20.64	21.44	21.91	22.37	23.17	22.85	23.64	24.11
8H	4H	19.86	20.75	20.32	21.19	21.66	21.03	21.92	21.49	22.36	22.83
	6H	20.52	21.27	21.01	21.75	22.23	22.14	22.89	22.63	23.37	23.85
	8H	20.73	21.40	21.24	21.91	22.39	22.65	23.32	23.16	23.83	24.31
	12H	20.87	21.46	21.38	21.95	22.51	23.04	23.63	23.54	24.12	24.68
12H	4H	19.95	20.75	20.43	21.23	21.70	21.05	21.86	21.53	22.33	22.80
	6H	20.65	21.32	21.16	21.83	22.31	22.19	22.86	22.69	23.36	23.85
	8H	20.93	21.52	21.44	22.01	22.57	22.77	23.36	23.27	23.85	24.41