

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: P1587619

Luminaire Tested: 22CZSP-SB-33HE-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587619
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-33HE-L845
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 3000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

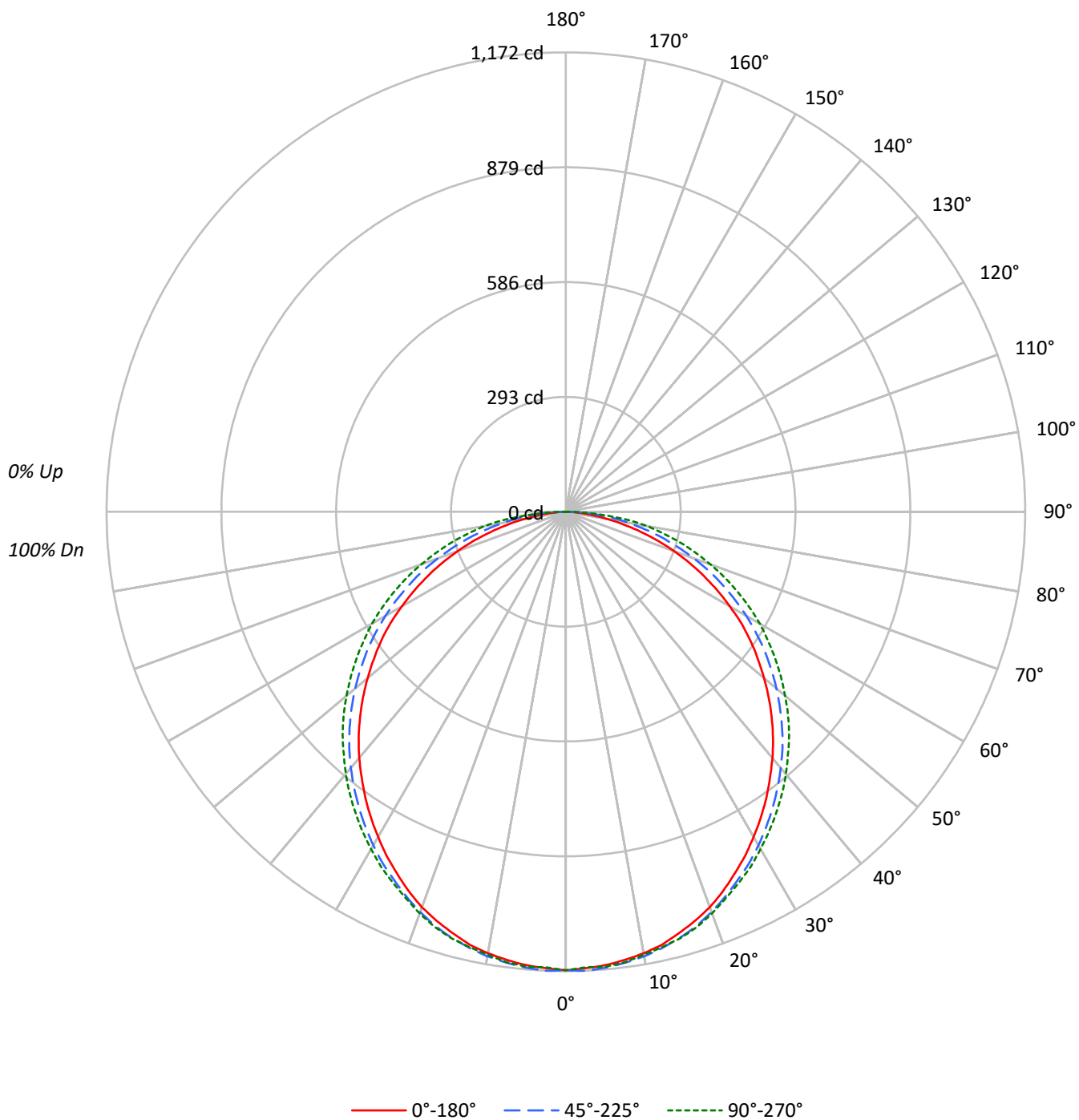
Lumens per Lamp: N/A
Luminaire Lumens: 3414.0 lumens
Efficiency: N/A
Efficacy: 157.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3663	3663	3663
5°	3650	3670	3661
10°	3637	3662	3648
15°	3610	3647	3652
20°	3578	3621	3634
25°	3520	3583	3607
30°	3464	3553	3592
35°	3409	3519	3580
40°	3352	3488	3571
45°	3289	3456	3568
50°	3217	3418	3559
55°	3144	3380	3558
60°	3027	3330	3580
65°	2886	3266	3582
70°	2693	3175	3593
75°	2396	3060	3654
80°	1967	2932	3792
85°	1297	2752	3428

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3884 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	3.2
10°-20°	316.7	9.3
20°-30°	477.4	14.0
30°-40°	574.9	16.8
40°-50°	600.7	17.6
50°-60°	551.8	16.2
60°-70°	434.6	12.7
70°-80°	266.4	7.8
80°-90°	80.8	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°	904.8	26.5
0°-40°	1479.8	43.3
0°-60°	2632.2	77.1
0°-90°	3414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3414.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1170	1170	1170	1170	1170	
5°	1161	1163	1168	1166	1165	110
15°	1114	1118	1125	1129	1126	314
25°	1019	1025	1037	1048	1044	470
35°	892	903	921	937	936	558
45°	743	759	780	802	806	573
55°	576	592	619	646	652	514
65°	390	410	441	470	483	385
75°	198	221	253	283	302	210
85°	36	54	77	85	95	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1169.8	1169.8	1169.8	1169.8	1169.8
2.5°	1165.5	1168.4	1172.0	1166.2	1163.3
5°	1161.2	1163.3	1167.7	1166.2	1164.8
7.5°	1153.2	1154.7	1160.4	1160.4	1159.0
10°	1143.8	1146.7	1151.8	1151.1	1147.4
12.5°	1131.5	1133.7	1139.5	1139.5	1137.3
15°	1113.5	1117.8	1125.0	1129.4	1126.5
17.5°	1094.7	1099.0	1108.4	1112.8	1111.3
20°	1073.7	1077.4	1086.7	1093.2	1090.4
22.5°	1047.7	1052.1	1062.9	1070.1	1067.2
25°	1018.8	1025.3	1036.9	1047.7	1044.1
27.5°	989.9	997.1	1011.6	1022.4	1021.0
30°	958.1	967.5	982.7	996.4	993.5
32.5°	925.6	936.5	952.3	966.8	966.1
35°	891.7	903.2	920.6	937.2	936.5
37.5°	855.5	869.3	887.3	905.4	906.1
40°	820.1	833.1	853.4	872.9	873.6
42.5°	782.5	796.3	817.9	838.2	838.9
45°	742.8	758.7	780.4	802.1	805.7
47.5°	702.3	719.0	741.4	764.5	768.8
50°	660.4	677.8	701.6	726.2	730.5
52.5°	617.8	635.9	660.4	685.0	691.5
55°	575.9	592.5	619.2	646.0	651.8
57.5°	531.8	547.0	575.9	604.1	611.3
60°	483.4	502.2	531.8	560.0	571.6
62.5°	436.4	456.7	487.0	515.2	528.2
65°	389.5	409.7	440.8	470.4	483.4
67.5°	341.8	362.7	396.0	424.1	438.6
70°	294.1	315.0	346.8	377.2	392.4
72.5°	246.4	268.8	299.9	330.9	346.1
75°	198.0	221.1	252.9	283.2	302.0
77.5°	152.5	174.9	206.7	237.7	253.6
80°	109.1	131.5	162.6	193.6	210.3
82.5°	69.4	90.3	120.7	146.7	161.9
85°	36.1	53.5	76.6	85.3	95.4
87.5°	10.8	21.0	29.6	33.2	41.2
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	16.02	17.69	16.39	18.00	18.32	16.77	18.43	17.14	18.75	19.06
	3H	17.79	19.29	18.16	19.62	19.98	18.87	20.37	19.24	20.70	21.06
	4H	18.41	19.83	18.81	20.18	20.56	19.75	21.17	20.15	21.52	21.89
	6H	18.82	20.14	19.23	20.51	20.90	20.52	21.84	20.93	22.20	22.59
	8H	18.93	20.19	19.35	20.58	20.98	20.83	22.09	21.25	22.48	22.88
	12H	18.98	20.19	19.41	20.57	21.00	21.04	22.25	21.47	22.63	23.06
4H	2H	16.79	18.22	17.19	18.56	18.94	17.37	18.80	17.77	19.14	19.52
	3H	18.79	19.99	19.20	20.38	20.78	19.70	20.90	20.11	21.30	21.70
	4H	19.54	20.63	19.97	21.04	21.48	20.74	21.82	21.17	22.24	22.67
	6H	20.08	21.03	20.53	21.47	21.92	21.67	22.62	22.12	23.06	23.51
	8H	20.23	21.12	20.68	21.56	22.02	22.05	22.94	22.51	23.39	23.85
	12H	20.31	21.12	20.79	21.59	22.06	22.33	23.13	22.81	23.61	24.07
8H	4H	19.99	20.89	20.45	21.33	21.79	21.04	21.93	21.50	22.37	22.83
	6H	20.67	21.42	21.16	21.90	22.38	22.12	22.87	22.61	23.35	23.83
	8H	20.89	21.56	21.40	22.07	22.55	22.61	23.28	23.12	23.78	24.27
	12H	21.04	21.63	21.54	22.12	22.68	22.98	23.58	23.49	24.07	24.62
12H	4H	20.08	20.88	20.56	21.36	21.82	21.06	21.87	21.54	22.34	22.81
	6H	20.80	21.47	21.31	21.97	22.46	22.17	22.84	22.68	23.35	23.83
	8H	21.09	21.68	21.60	22.17	22.73	22.73	23.32	23.23	23.81	24.37