

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: P1587614

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-33HE-L835-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 3000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

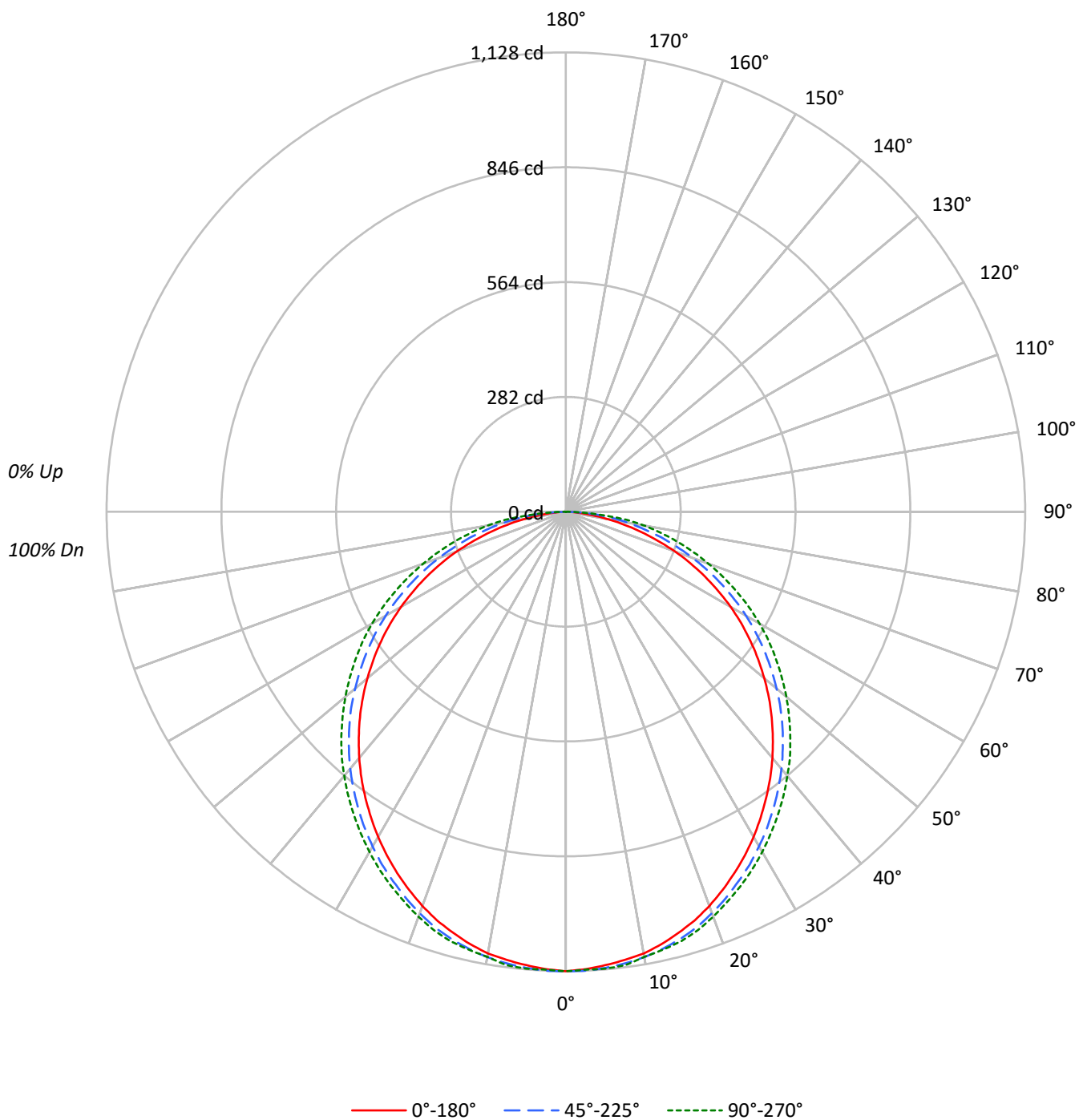
Lumens per Lamp: N/A
Luminaire Lumens: 3282.0 lumens
Efficiency: N/A
Efficacy: 151.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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			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	94	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	66	61		69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53		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	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3533	3533	3533
5°	3513	3533	3540
10°	3502	3531	3529
15°	3470	3520	3541
20°	3433	3496	3527
25°	3384	3462	3505
30°	3334	3431	3487
35°	3279	3398	3471
40°	3226	3368	3460
45°	3167	3333	3452
50°	3099	3292	3443
55°	3022	3249	3438
60°	2927	3201	3440
65°	2793	3133	3421
70°	2611	3038	3413
75°	2314	2922	3425
80°	1884	2775	3527
85°	1218	2562	3043

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3575 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	3.3
10°-20°	305.8	9.3
20°-30°	461.0	14.0
30°-40°	554.7	16.9
40°-50°	578.6	17.6
50°-60°	530.3	16.2
60°-70°	416.4	12.7
70°-80°	253.5	7.7
80°-90°	75.0	2.3
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°	873.5	26.6
0°-40°	1428.2	43.5
0°-60°	2537.1	77.3
0°-90°	3282.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3282.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1118	1125	1124	1123	1126	106
15°	1070	1081	1086	1087	1092	302
25°	979	993	1002	1008	1015	451
35°	858	871	889	902	908	537
45°	715	730	753	770	780	552
55°	554	568	595	619	630	495
65°	377	391	423	451	462	373
75°	191	209	242	270	283	203
85°	34	48	71	80	85	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1128.2	1128.2	1128.2	1128.2	1128.2
2.5°	1124.0	1129.6	1128.2	1123.3	1125.4
5°	1117.6	1124.7	1124.0	1122.6	1126.1
7.5°	1109.9	1117.6	1118.4	1118.4	1122.6
10°	1101.4	1109.2	1110.6	1108.5	1109.9
12.5°	1087.3	1096.5	1099.3	1099.3	1101.4
15°	1070.3	1080.9	1085.9	1087.3	1092.2
17.5°	1052.0	1063.3	1069.6	1073.2	1077.4
20°	1030.1	1042.1	1049.2	1053.4	1058.3
22.5°	1005.4	1018.8	1026.6	1030.8	1036.5
25°	979.3	992.7	1001.9	1008.2	1014.6
27.5°	951.7	964.4	977.1	984.9	990.6
30°	922.1	935.5	948.9	958.8	964.4
32.5°	890.3	904.4	920.0	930.5	936.9
35°	857.8	871.2	888.9	901.6	908.0
37.5°	824.6	838.8	857.1	870.5	878.3
40°	789.3	804.2	823.9	838.8	846.5
42.5°	752.6	766.7	788.6	805.6	814.8
45°	715.2	730.0	752.6	770.3	779.5
47.5°	676.4	690.5	715.2	735.7	743.5
50°	636.1	649.5	675.7	697.6	706.7
52.5°	595.2	609.3	635.4	658.7	668.6
55°	553.5	567.6	595.2	619.2	629.8
57.5°	511.2	525.3	553.5	578.2	590.9
60°	467.4	481.5	511.2	536.6	549.3
62.5°	422.2	437.0	467.4	493.5	506.9
65°	377.0	391.1	422.9	451.2	461.7
67.5°	331.8	346.0	377.0	405.3	418.0
70°	285.2	301.5	331.8	361.5	372.8
72.5°	236.5	254.9	285.2	316.3	327.6
75°	191.3	209.0	241.5	270.4	283.1
77.5°	146.9	165.9	196.3	225.9	238.6
80°	104.5	122.8	153.9	182.2	195.6
82.5°	66.4	82.6	113.7	139.1	149.0
85°	33.9	48.0	71.3	79.8	84.7
87.5°	9.9	16.9	25.4	31.8	35.3
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	15.88	17.54	16.25	17.86	18.17	16.62	18.28	16.98	18.59	18.91
	3H	17.65	19.16	18.03	19.48	19.84	18.70	20.20	19.08	20.53	20.89
	4H	18.27	19.69	18.67	20.04	20.41	19.56	20.98	19.96	21.33	21.71
	6H	18.68	20.00	19.09	20.36	20.75	20.31	21.63	20.72	21.99	22.38
	8H	18.78	20.04	19.21	20.43	20.83	20.60	21.86	21.03	22.25	22.65
	12H	18.83	20.04	19.26	20.42	20.85	20.80	22.01	21.23	22.39	22.82
4H	2H	16.65	18.07	17.05	18.42	18.79	17.22	18.64	17.62	18.99	19.37
	3H	18.64	19.84	19.05	20.24	20.64	19.54	20.73	19.95	21.13	21.53
	4H	19.39	20.47	19.82	20.88	21.32	20.56	21.64	20.99	22.05	22.49
	6H	19.92	20.86	20.37	21.30	21.76	21.46	22.41	21.91	22.85	23.30
	8H	20.06	20.95	20.52	21.39	21.85	21.83	22.72	22.29	23.16	23.62
	12H	20.14	20.94	20.62	21.41	21.88	22.08	22.88	22.56	23.36	23.83
8H	4H	19.83	20.72	20.29	21.16	21.63	20.85	21.74	21.31	22.18	22.65
	6H	20.50	21.24	20.99	21.72	22.20	21.91	22.65	22.40	23.14	23.61
	8H	20.70	21.37	21.21	21.88	22.36	22.38	23.05	22.89	23.55	24.04
	12H	20.84	21.43	21.35	21.92	22.48	22.73	23.32	23.24	23.81	24.37
12H	4H	19.91	20.71	20.39	21.19	21.66	20.88	21.68	21.36	22.15	22.62
	6H	20.62	21.29	21.13	21.79	22.28	21.96	22.63	22.47	23.13	23.62
	8H	20.90	21.49	21.40	21.98	22.53	22.50	23.09	23.00	23.58	24.14