

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: P1587625

Luminaire Tested: 22CZSP-SB-33HE-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587625
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-L935
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 3000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

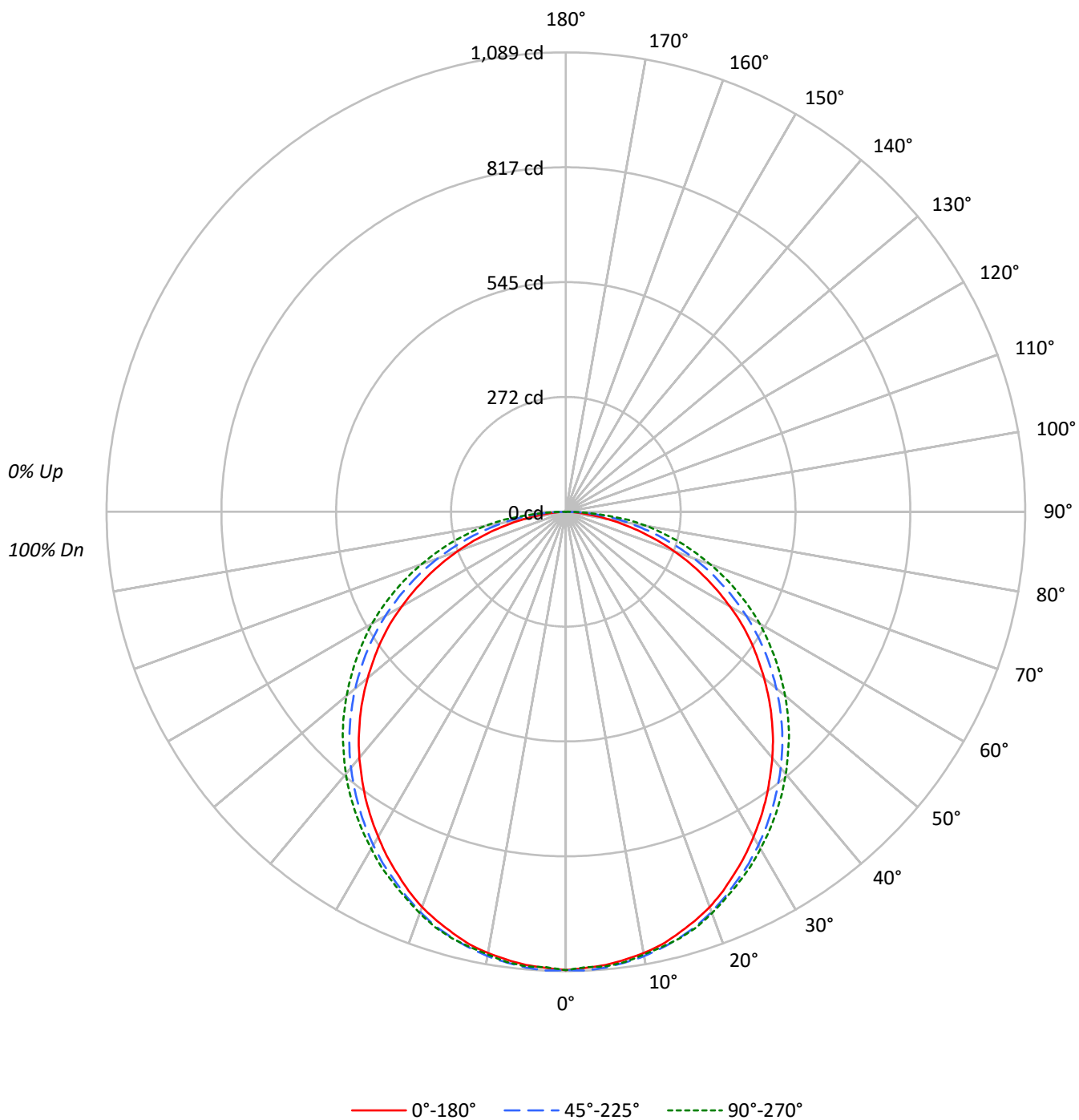
Lumens per Lamp: N/A
Luminaire Lumens: 3171.0 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	3402	3402	3402
5°	3390	3409	3401
10°	3378	3402	3389
15°	3353	3388	3392
20°	3323	3364	3375
25°	3270	3328	3351
30°	3218	3300	3337
35°	3166	3268	3325
40°	3114	3240	3317
45°	3055	3210	3314
50°	2988	3175	3305
55°	2920	3140	3305
60°	2812	3094	3325
65°	2680	3033	3327
70°	2501	2949	3336
75°	2225	2842	3394
80°	1827	2723	3522
85°	1207	2554	3183

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3606 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.8	3.2
10°-20°	294.2	9.3
20°-30°	443.4	14.0
30°-40°	534.0	16.8
40°-50°	557.9	17.6
50°-60°	512.6	16.2
60°-70°	403.6	12.7
70°-80°	247.5	7.8
80°-90°	75.0	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°	840.4	26.5
0°-40°	1374.4	43.3
0°-60°	2444.9	77.1
0°-90°	3171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3171.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1087	1087	1087	1087	1087	
5°	1078	1080	1085	1083	1082	102
15°	1034	1038	1045	1049	1046	292
25°	946	952	963	973	970	436
35°	828	839	855	870	870	518
45°	690	705	725	745	748	532
55°	535	550	575	600	605	477
65°	362	380	409	437	449	358
75°	184	205	235	263	280	195
85°	34	50	71	79	89	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1086.6	1086.6	1086.6	1086.6	1086.6
2.5°	1082.5	1085.2	1088.6	1083.2	1080.5
5°	1078.5	1080.5	1084.6	1083.2	1081.9
7.5°	1071.1	1072.5	1077.8	1077.8	1076.5
10°	1062.4	1065.1	1069.8	1069.1	1065.8
12.5°	1051.0	1053.0	1058.4	1058.4	1056.4
15°	1034.2	1038.3	1045.0	1049.0	1046.3
17.5°	1016.8	1020.8	1029.5	1033.6	1032.2
20°	997.3	1000.7	1009.4	1015.4	1012.7
22.5°	973.2	977.2	987.2	994.0	991.3
25°	946.3	952.3	963.1	973.2	969.8
27.5°	919.5	926.2	939.6	949.7	948.3
30°	889.9	898.7	912.7	925.5	922.8
32.5°	859.7	869.8	884.6	898.0	897.3
35°	828.2	838.9	855.0	870.5	869.8
37.5°	794.6	807.4	824.2	840.9	841.6
40°	761.7	773.8	792.6	810.7	811.4
42.5°	726.8	739.6	759.7	778.5	779.2
45°	689.9	704.7	724.8	745.0	748.3
47.5°	652.3	667.8	688.6	710.1	714.1
50°	613.4	629.5	651.7	674.5	678.5
52.5°	573.8	590.6	613.4	636.2	642.3
55°	534.9	550.3	575.2	600.0	605.4
57.5°	494.0	508.1	534.9	561.1	567.8
60°	449.0	466.4	494.0	520.1	530.9
62.5°	405.4	424.2	452.3	478.5	490.6
65°	361.7	380.5	409.4	436.9	449.0
67.5°	317.4	336.9	367.8	394.0	407.4
70°	273.2	292.6	322.1	350.3	364.4
72.5°	228.9	249.7	278.5	307.4	321.5
75°	183.9	205.4	234.9	263.1	280.5
77.5°	141.6	162.4	191.9	220.8	235.6
80°	101.3	122.1	151.0	179.9	195.3
82.5°	64.4	83.9	112.1	136.2	150.3
85°	33.6	49.7	71.1	79.2	88.6
87.5°	10.1	19.5	27.5	30.9	38.3
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	15.77	17.43	16.13	17.75	18.06	16.51	18.18	16.88	18.49	18.81
	3H	17.53	19.04	17.91	19.36	19.72	18.61	20.12	18.99	20.44	20.80
	4H	18.16	19.58	18.55	19.92	20.30	19.49	20.92	19.89	21.26	21.64
	6H	18.57	19.89	18.98	20.25	20.64	20.26	21.58	20.67	21.95	22.34
	8H	18.67	19.94	19.10	20.32	20.72	20.57	21.84	21.00	22.22	22.62
	12H	18.73	19.94	19.15	20.32	20.75	20.79	22.00	21.21	22.38	22.81
4H	2H	16.54	17.96	16.94	18.31	18.68	17.12	18.54	17.52	18.89	19.26
	3H	18.53	19.73	18.94	20.13	20.53	19.45	20.64	19.85	21.04	21.44
	4H	19.29	20.37	19.72	20.78	21.22	20.48	21.57	20.91	21.98	22.41
	6H	19.82	20.77	20.27	21.21	21.67	21.41	22.36	21.86	22.80	23.26
	8H	19.97	20.86	20.43	21.30	21.77	21.80	22.69	22.25	23.13	23.59
	12H	20.05	20.86	20.53	21.33	21.80	22.07	22.87	22.55	23.35	23.82
8H	4H	19.74	20.63	20.20	21.07	21.54	20.78	21.67	21.24	22.11	22.58
	6H	20.41	21.16	20.91	21.65	22.12	21.86	22.61	22.36	23.10	23.57
	8H	20.64	21.30	21.14	21.81	22.29	22.35	23.02	22.86	23.53	24.01
	12H	20.78	21.37	21.29	21.86	22.42	22.73	23.32	23.23	23.81	24.37
12H	4H	19.82	20.62	20.30	21.10	21.57	20.81	21.61	21.29	22.09	22.55
	6H	20.54	21.21	21.05	21.72	22.20	21.92	22.59	22.42	23.09	23.58
	8H	20.83	21.43	21.34	21.92	22.47	22.47	23.06	22.98	23.55	24.11