

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: P1587634

Luminaire Tested: 22CZSP-SB-35-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587634
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-35-L835-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

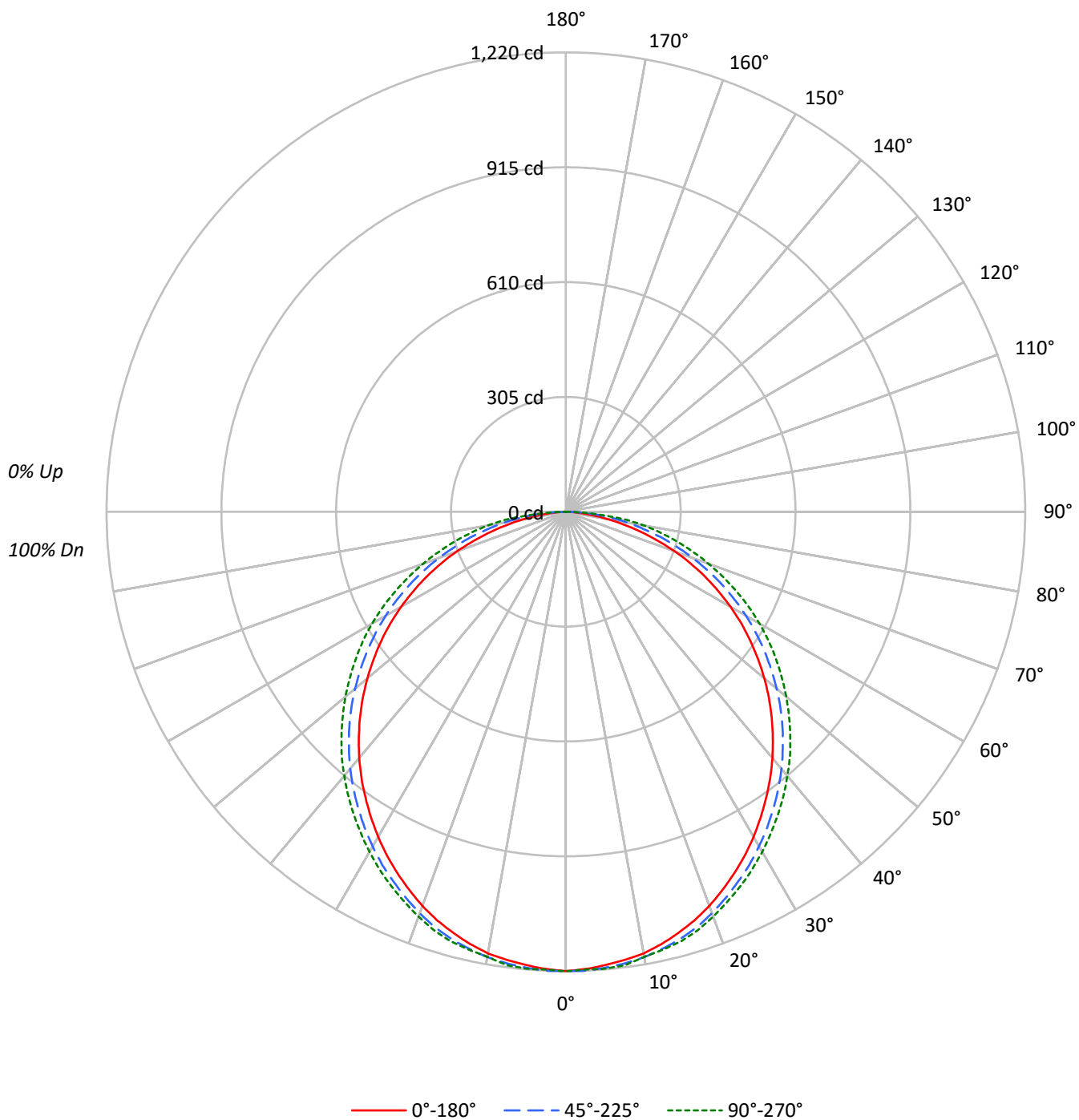
Lumens per Lamp: N/A
Luminaire Lumens: 3549.0 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
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	94	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	64	87	77	69	63	74	67	62		71	66	61		69
4	82	70	61	54	79	68	60	53	66	58	53		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	45	39		50
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3820	3820	3820
5°	3799	3820	3828
10°	3787	3818	3816
15°	3752	3807	3829
20°	3712	3780	3813
25°	3659	3743	3791
30°	3605	3710	3771
35°	3546	3674	3753
40°	3489	3642	3742
45°	3425	3604	3733
50°	3351	3559	3723
55°	3268	3514	3718
60°	3165	3462	3720
65°	3021	3388	3699
70°	2824	3285	3691
75°	2503	3159	3705
80°	2038	3001	3814
85°	1315	2770	3291

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3865 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.5	3.3
10°-20°	330.6	9.3
20°-30°	498.5	14.0
30°-40°	599.8	16.9
40°-50°	625.7	17.6
50°-60°	573.5	16.2
60°-70°	450.3	12.7
70°-80°	274.1	7.7
80°-90°	81.1	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°	944.6	26.6
0°-40°	1544.4	43.5
0°-60°	2743.5	77.3
0°-90°	3549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3549.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1220	1220	1220	1220	1220	
5°	1209	1216	1215	1214	1218	115
15°	1157	1169	1174	1176	1181	327
25°	1059	1073	1083	1090	1097	488
35°	928	942	961	975	982	580
45°	773	789	814	833	843	596
55°	599	614	644	670	681	535
65°	408	423	457	488	499	403
75°	207	226	261	292	306	219
85°	37	52	77	86	92	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1220.0	1220.0	1220.0	1220.0	1220.0
2.5°	1215.4	1221.6	1220.0	1214.7	1217.0
5°	1208.6	1216.2	1215.4	1213.9	1217.7
7.5°	1200.2	1208.6	1209.3	1209.3	1213.9
10°	1191.0	1199.4	1200.9	1198.6	1200.2
12.5°	1175.7	1185.7	1188.7	1188.7	1191.0
15°	1157.4	1168.9	1174.2	1175.7	1181.1
17.5°	1137.6	1149.8	1156.7	1160.5	1165.1
20°	1113.9	1126.9	1134.5	1139.1	1144.4
22.5°	1087.2	1101.7	1110.1	1114.7	1120.8
25°	1058.9	1073.4	1083.4	1090.2	1097.1
27.5°	1029.2	1042.9	1056.6	1065.0	1071.1
30°	997.1	1011.6	1026.1	1036.8	1042.9
32.5°	962.7	978.0	994.8	1006.3	1013.1
35°	927.6	942.1	961.2	974.9	981.8
37.5°	891.7	907.0	926.9	941.4	949.8
40°	853.6	869.6	891.0	907.0	915.4
42.5°	813.9	829.1	852.8	871.1	881.0
45°	773.4	789.4	813.9	832.9	842.9
47.5°	731.4	746.7	773.4	795.5	803.9
50°	687.9	702.4	730.6	754.3	764.2
52.5°	643.6	658.9	687.1	712.3	723.0
55°	598.6	613.8	643.6	669.6	681.0
57.5°	552.8	568.0	598.6	625.3	639.0
60°	505.4	520.7	552.8	580.2	594.0
62.5°	456.6	472.6	505.4	533.7	548.2
65°	407.7	423.0	457.3	487.9	499.3
67.5°	358.8	374.1	407.7	438.2	452.0
70°	308.4	326.0	358.8	390.9	403.1
72.5°	255.8	275.6	308.4	342.0	354.2
75°	206.9	226.0	261.1	292.4	306.2
77.5°	158.8	179.4	212.2	244.3	258.1
80°	113.0	132.8	166.4	197.0	211.5
82.5°	71.8	89.3	122.9	150.4	161.1
85°	36.6	51.9	77.1	86.3	91.6
87.5°	10.7	18.3	27.5	34.4	38.2
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	16.16	17.82	16.52	18.13	18.44	16.89	18.55	17.26	18.87	19.18
	3H	17.92	19.43	18.30	19.76	20.12	18.97	20.48	19.35	20.80	21.16
	4H	18.54	19.96	18.94	20.31	20.69	19.84	21.26	20.23	21.60	21.98
	6H	18.95	20.27	19.36	20.63	21.02	20.58	21.90	20.99	22.26	22.65
	8H	19.06	20.32	19.48	20.70	21.10	20.88	22.14	21.30	22.52	22.92
	12H	19.10	20.31	19.53	20.69	21.12	21.07	22.28	21.50	22.66	23.09
4H	2H	16.92	18.34	17.32	18.69	19.07	17.50	18.92	17.89	19.26	19.64
	3H	18.92	20.11	19.32	20.51	20.91	19.81	21.00	20.22	21.40	21.80
	4H	19.66	20.74	20.09	21.15	21.59	20.83	21.91	21.26	22.32	22.76
	6H	20.19	21.14	20.64	21.58	22.03	21.73	22.68	22.19	23.12	23.58
	8H	20.33	21.22	20.79	21.66	22.12	22.10	22.99	22.56	23.43	23.90
	12H	20.41	21.21	20.89	21.68	22.15	22.35	23.16	22.83	23.63	24.10
8H	4H	20.10	20.99	20.56	21.43	21.90	21.12	22.01	21.58	22.46	22.92
	6H	20.77	21.51	21.26	22.00	22.47	22.18	22.92	22.67	23.41	23.89
	8H	20.98	21.64	21.48	22.15	22.63	22.65	23.32	23.16	23.83	24.31
	12H	21.11	21.70	21.62	22.19	22.75	23.01	23.60	23.51	24.09	24.64
12H	4H	20.18	20.99	20.66	21.46	21.93	21.15	21.95	21.63	22.43	22.89
	6H	20.89	21.56	21.40	22.06	22.55	22.23	22.90	22.74	23.41	23.89
	8H	21.17	21.76	21.67	22.25	22.81	22.77	23.36	23.28	23.85	24.41