

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: P1587665

Luminaire Tested: 22CZSP-SB-37HE-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587665
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-37HE-L935
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

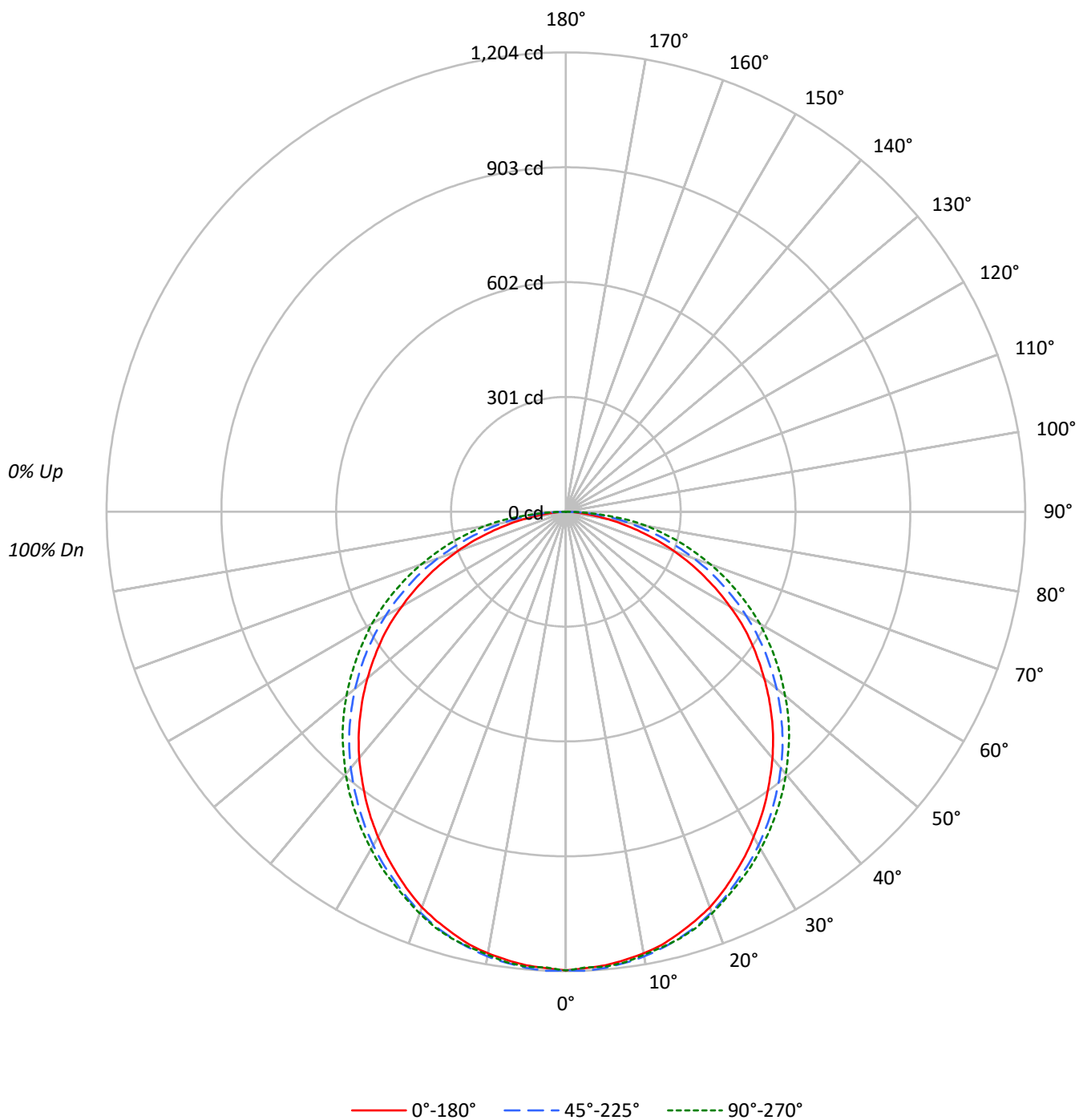
Lumens per Lamp: N/A
Luminaire Lumens: 3508.0 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.1
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	68
3	89	79	70	63	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°	3764	3764	3764
5°	3750	3771	3762
10°	3737	3763	3749
15°	3709	3748	3752
20°	3677	3721	3733
25°	3617	3681	3707
30°	3560	3651	3691
35°	3502	3616	3678
40°	3445	3584	3669
45°	3380	3551	3666
50°	3306	3512	3657
55°	3230	3474	3656
60°	3111	3423	3678
65°	2965	3356	3680
70°	2767	3263	3691
75°	2461	3144	3755
80°	2021	3013	3897
85°	1333	2828	3521

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3990 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	3.2
10°-20°	325.5	9.3
20°-30°	490.6	14.0
30°-40°	590.8	16.8
40°-50°	617.2	17.6
50°-60°	567.0	16.2
60°-70°	446.5	12.7
70°-80°	273.8	7.8
80°-90°	83.0	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°	929.7	26.5
0°-40°	1520.5	43.3
0°-60°	2704.7	77.1
0°-90°	3508.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3508.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1202	1202	1202	1202	1202	
5°	1193	1195	1200	1198	1197	113
15°	1144	1149	1156	1160	1158	323
25°	1047	1054	1065	1077	1073	483
35°	916	928	946	963	962	573
45°	763	780	802	824	828	589
55°	592	609	636	664	670	528
65°	400	421	453	483	497	396
75°	203	227	260	291	310	216
85°	37	55	79	88	98	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1202.1	1202.1	1202.1	1202.1	1202.1
2.5°	1197.6	1200.6	1204.3	1198.3	1195.4
5°	1193.1	1195.4	1199.8	1198.3	1196.9
7.5°	1185.0	1186.5	1192.4	1192.4	1190.9
10°	1175.3	1178.3	1183.5	1182.7	1179.0
12.5°	1162.7	1164.9	1170.9	1170.9	1168.6
15°	1144.1	1148.6	1156.0	1160.5	1157.5
17.5°	1124.8	1129.3	1138.9	1143.4	1141.9
20°	1103.3	1107.0	1116.7	1123.3	1120.4
22.5°	1076.6	1081.0	1092.2	1099.6	1096.6
25°	1046.9	1053.6	1065.4	1076.6	1072.9
27.5°	1017.2	1024.6	1039.5	1050.6	1049.1
30°	984.5	994.2	1009.8	1023.9	1020.9
32.5°	951.1	962.2	978.6	993.4	992.7
35°	916.2	928.1	945.9	963.0	962.2
37.5°	879.1	893.2	911.7	930.3	931.1
40°	842.7	856.1	876.9	896.9	897.6
42.5°	804.1	818.2	840.5	861.3	862.0
45°	763.3	779.6	801.9	824.1	827.8
47.5°	721.7	738.8	761.8	785.5	790.0
50°	678.6	696.4	720.9	746.2	750.6
52.5°	634.8	653.4	678.6	703.9	710.5
55°	591.7	608.8	636.3	663.8	669.7
57.5°	546.5	562.0	591.7	620.7	628.1
60°	496.7	516.0	546.5	575.4	587.3
62.5°	448.4	469.2	500.4	529.4	542.7
65°	400.2	421.0	452.9	483.3	496.7
67.5°	351.2	372.7	406.9	435.8	450.7
70°	302.2	323.7	356.4	387.6	403.2
72.5°	253.2	276.2	308.1	340.0	355.6
75°	203.4	227.2	259.9	291.0	310.4
77.5°	156.7	179.7	212.3	244.3	260.6
80°	112.1	135.1	167.1	199.0	216.1
82.5°	71.3	92.8	124.0	150.7	166.3
85°	37.1	54.9	78.7	87.6	98.0
87.5°	11.1	21.5	30.4	34.2	42.3
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	16.12	17.78	16.48	18.10	18.41	16.86	18.53	17.23	18.84	19.16
	3H	17.88	19.39	18.26	19.71	20.07	18.96	20.47	19.34	20.79	21.15
	4H	18.51	19.93	18.90	20.28	20.65	19.84	21.27	20.24	21.61	21.99
	6H	18.92	20.24	19.33	20.60	20.99	20.61	21.93	21.02	22.30	22.69
	8H	19.02	20.29	19.45	20.68	21.07	20.92	22.19	21.35	22.57	22.97
	12H	19.08	20.29	19.50	20.67	21.10	21.14	22.35	21.57	22.73	23.16
4H	2H	16.89	18.31	17.29	18.66	19.03	17.47	18.89	17.87	19.24	19.61
	3H	18.88	20.08	19.29	20.48	20.88	19.80	21.00	20.21	21.39	21.79
	4H	19.64	20.72	20.07	21.13	21.57	20.83	21.92	21.26	22.33	22.77
	6H	20.17	21.12	20.62	21.56	22.02	21.76	22.71	22.21	23.15	23.61
	8H	20.32	21.21	20.78	21.65	22.12	22.15	23.04	22.60	23.48	23.94
	12H	20.41	21.21	20.88	21.68	22.15	22.42	23.23	22.90	23.70	24.17
8H	4H	20.09	20.98	20.55	21.42	21.89	21.13	22.02	21.59	22.47	22.93
	6H	20.77	21.51	21.26	22.00	22.47	22.22	22.96	22.71	23.45	23.92
	8H	20.99	21.66	21.49	22.16	22.64	22.70	23.37	23.21	23.88	24.36
	12H	21.13	21.73	21.64	22.22	22.77	23.08	23.67	23.58	24.16	24.72
12H	4H	20.17	20.98	20.65	21.45	21.92	21.16	21.96	21.64	22.44	22.91
	6H	20.89	21.56	21.40	22.07	22.55	22.27	22.94	22.78	23.44	23.93
	8H	21.18	21.78	21.69	22.27	22.83	22.82	23.41	23.33	23.90	24.46