

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: P1587666

Luminaire Tested: 22CZSP-SB-37HE-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587666
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-37HE-L940-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

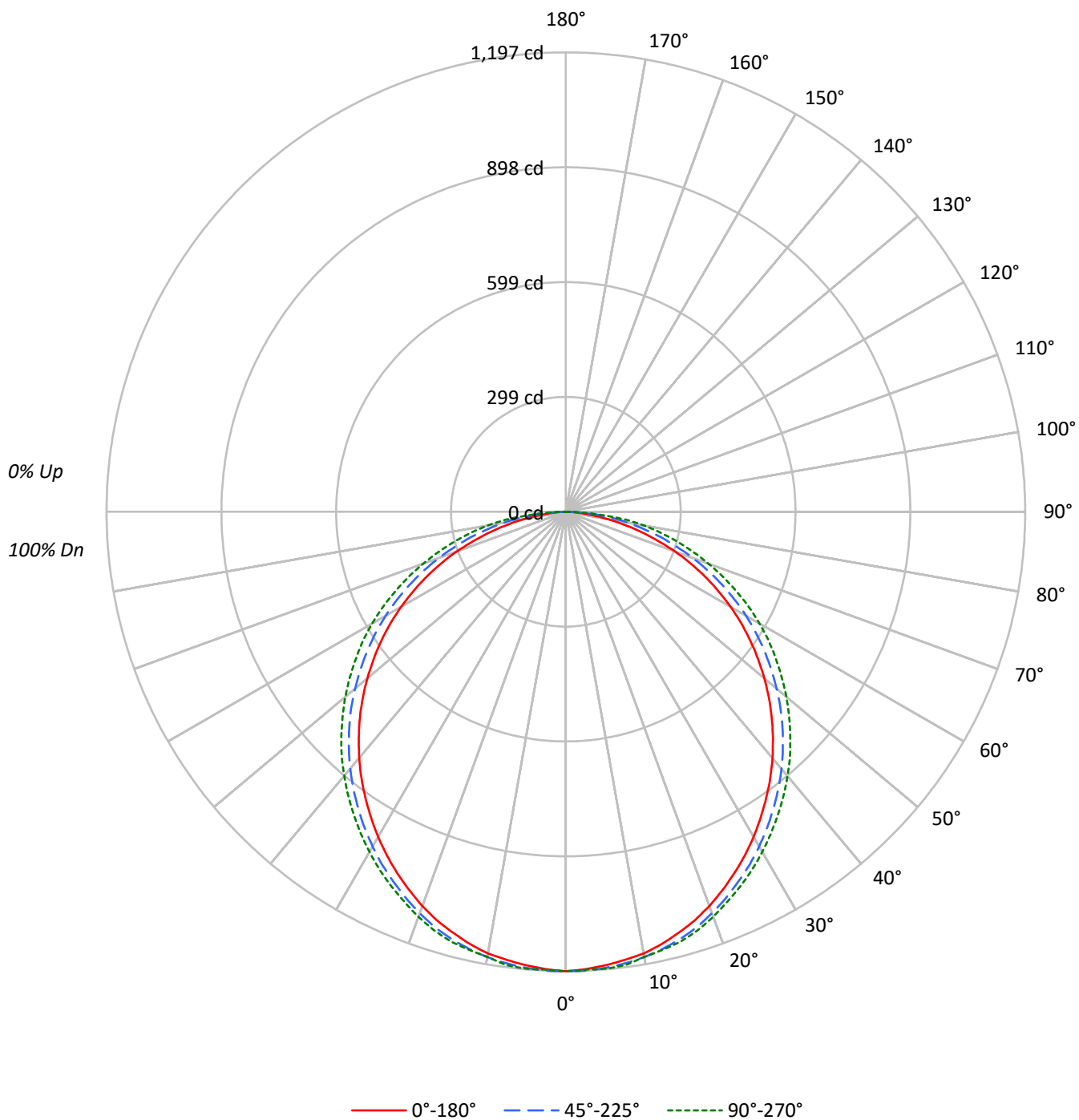
Lumens per Lamp: N/A
Luminaire Lumens: 3483.0 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.1
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	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°	3749	3749	3749
5°	3728	3749	3757
10°	3717	3748	3745
15°	3682	3736	3758
20°	3643	3710	3743
25°	3590	3673	3720
30°	3538	3641	3701
35°	3480	3606	3683
40°	3424	3574	3672
45°	3361	3537	3663
50°	3289	3493	3654
55°	3207	3448	3648
60°	3106	3397	3651
65°	2964	3325	3631
70°	2771	3225	3622
75°	2457	3101	3636
80°	2000	2945	3742
85°	1293	2720	3230

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3793 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	3.3
10°-20°	324.5	9.3
20°-30°	489.2	14.0
30°-40°	588.7	16.9
40°-50°	614.0	17.6
50°-60°	562.8	16.2
60°-70°	441.9	12.7
70°-80°	269.0	7.7
80°-90°	79.6	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°	927.0	26.6
0°-40°	1515.6	43.5
0°-60°	2692.5	77.3
0°-90°	3483.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3483.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1197	1197	1197	1197	1197	
5°	1186	1194	1193	1191	1195	113
15°	1136	1147	1152	1154	1159	320
25°	1039	1054	1063	1070	1077	479
35°	910	925	943	957	964	570
45°	759	775	799	818	827	585
55°	587	602	632	657	668	525
65°	400	415	449	479	490	396
75°	203	222	256	287	300	215
85°	36	51	76	85	90	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1197.3	1197.3	1197.3	1197.3	1197.3
2.5°	1192.8	1198.8	1197.3	1192.1	1194.3
5°	1186.1	1193.6	1192.8	1191.3	1195.1
7.5°	1177.9	1186.1	1186.8	1186.8	1191.3
10°	1168.9	1177.1	1178.6	1176.4	1177.9
12.5°	1153.9	1163.6	1166.6	1166.6	1168.9
15°	1135.9	1147.1	1152.4	1153.9	1159.1
17.5°	1116.4	1128.4	1135.1	1138.9	1143.4
20°	1093.2	1105.9	1113.4	1117.9	1123.2
22.5°	1067.0	1081.2	1089.4	1093.9	1099.9
25°	1039.2	1053.5	1063.2	1070.0	1076.7
27.5°	1010.0	1023.5	1037.0	1045.2	1051.2
30°	978.5	992.8	1007.0	1017.5	1023.5
32.5°	944.8	959.8	976.3	987.5	994.3
35°	910.4	924.6	943.3	956.8	963.6
37.5°	875.1	890.1	909.6	923.9	932.1
40°	837.7	853.4	874.4	890.1	898.4
42.5°	798.7	813.7	836.9	854.9	864.7
45°	759.0	774.7	798.7	817.5	827.2
47.5°	717.8	732.8	759.0	780.7	789.0
50°	675.1	689.3	717.1	740.3	750.0
52.5°	631.6	646.6	674.3	699.1	709.6
55°	587.4	602.4	631.6	657.1	668.3
57.5°	542.5	557.5	587.4	613.7	627.1
60°	496.0	511.0	542.5	569.4	582.9
62.5°	448.1	463.8	496.0	523.7	538.0
65°	400.1	415.1	448.8	478.8	490.0
67.5°	352.2	367.1	400.1	430.1	443.6
70°	302.7	319.9	352.2	383.6	395.6
72.5°	251.0	270.5	302.7	335.7	347.7
75°	203.1	221.8	256.3	287.0	300.5
77.5°	155.8	176.1	208.3	239.8	253.3
80°	110.9	130.4	163.3	193.3	207.5
82.5°	70.4	87.7	120.6	147.6	158.1
85°	36.0	51.0	75.7	84.7	89.9
87.5°	10.5	18.0	27.0	33.7	37.5
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	16.09	17.75	16.46	18.07	18.38	16.83	18.49	17.19	18.80	19.11
	3H	17.86	19.36	18.24	19.69	20.05	18.91	20.41	19.28	20.74	21.10
	4H	18.48	19.90	18.88	20.25	20.62	19.77	21.19	20.17	21.54	21.91
	6H	18.89	20.21	19.30	20.57	20.96	20.52	21.83	20.93	22.20	22.59
	8H	18.99	20.25	19.41	20.64	21.04	20.81	22.07	21.23	22.46	22.86
	12H	19.04	20.25	19.47	20.63	21.06	21.00	22.21	21.43	22.59	23.02
4H	2H	16.86	18.28	17.26	18.63	19.00	17.43	18.85	17.83	19.20	19.57
	3H	18.85	20.05	19.26	20.44	20.84	19.74	20.94	20.15	21.34	21.74
	4H	19.59	20.68	20.02	21.09	21.52	20.76	21.85	21.19	22.26	22.69
	6H	20.12	21.07	20.57	21.51	21.97	21.67	22.62	22.12	23.06	23.51
	8H	20.26	21.15	20.72	21.59	22.06	22.03	22.92	22.49	23.37	23.83
	12H	20.34	21.15	20.82	21.62	22.09	22.29	23.09	22.77	23.56	24.03
8H	4H	20.04	20.93	20.50	21.37	21.83	21.06	21.95	21.52	22.39	22.86
	6H	20.70	21.44	21.19	21.93	22.40	22.12	22.86	22.61	23.35	23.82
	8H	20.91	21.58	21.42	22.08	22.57	22.59	23.26	23.10	23.76	24.25
	12H	21.05	21.64	21.55	22.13	22.69	22.94	23.53	23.45	24.02	24.58
12H	4H	20.12	20.92	20.60	21.39	21.86	21.09	21.89	21.57	22.36	22.83
	6H	20.83	21.49	21.33	22.00	22.48	22.17	22.84	22.68	23.34	23.83
	8H	21.10	21.69	21.61	22.18	22.74	22.71	23.30	23.21	23.79	24.34