

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: P1587657

Luminaire Tested: 22CZSP-SB-37HE-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587657
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-L840
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

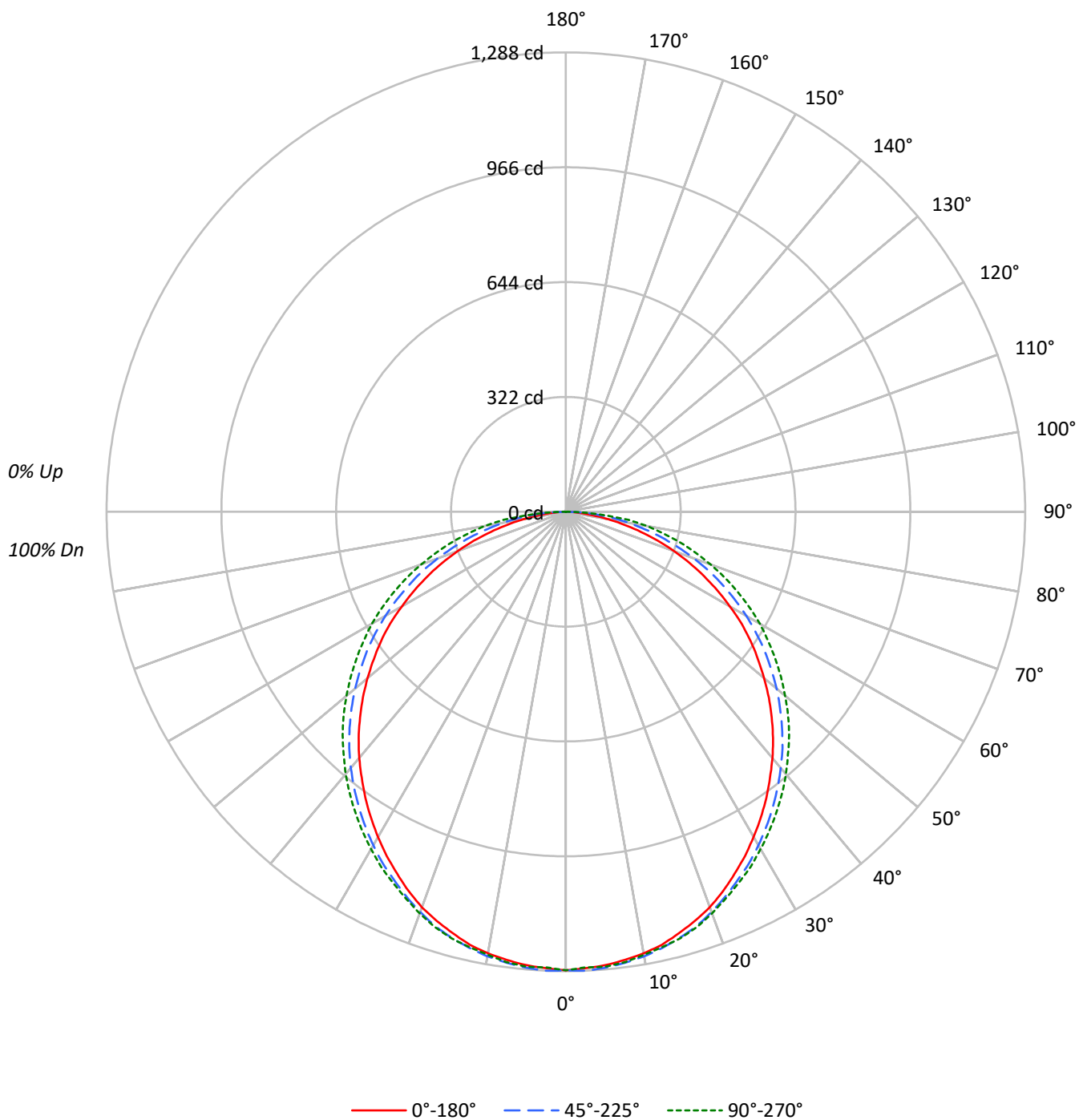
Lumens per Lamp: N/A
Luminaire Lumens: 3752.0 lumens
Efficiency: N/A
Efficacy: 155.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1587657

CATALOG NUMBER: 22CZSP-SB-37HE-L840

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°	4026	4026	4026
5°	4011	4034	4024
10°	3997	4025	4010
15°	3967	4008	4013
20°	3932	3980	3993
25°	3869	3937	3965
30°	3807	3905	3948
35°	3746	3867	3934
40°	3684	3833	3925
45°	3615	3798	3921
50°	3536	3756	3911
55°	3455	3716	3910
60°	3327	3661	3934
65°	3171	3589	3937
70°	2959	3490	3948
75°	2633	3362	4015
80°	2162	3222	4167
85°	1426	3025	3765

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4268 cd/sqm

TEST NUMBER: P1587657

CATALOG NUMBER: 22CZSP-SB-37HE-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.6	3.2
10°-20°	348.1	9.3
20°-30°	524.7	14.0
30°-40°	631.9	16.8
40°-50°	660.1	17.6
50°-60°	606.5	16.2
60°-70°	477.6	12.7
70°-80°	292.8	7.8
80°-90°	88.8	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°	994.4	26.5
0°-40°	1626.3	43.3
0°-60°	2892.8	77.1
0°-90°	3752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3752.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1286	1286	1286	1286	1286	
5°	1276	1278	1283	1282	1280	121
15°	1224	1228	1236	1241	1238	345
25°	1120	1127	1140	1152	1148	516
35°	980	993	1012	1030	1029	613
45°	816	834	858	882	885	630
55°	633	651	681	710	716	565
65°	428	450	484	517	531	423
75°	218	243	278	311	332	231
85°	40	59	84	94	105	51
90°	0	0	0	0	0	

TEST NUMBER: P1587657

CATALOG NUMBER: 22CZSP-SB-37HE-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1285.7	1285.7	1285.7	1285.7	1285.7
2.5°	1280.9	1284.1	1288.0	1281.7	1278.5
5°	1276.1	1278.5	1283.3	1281.7	1280.1
7.5°	1267.4	1269.0	1275.3	1275.3	1273.7
10°	1257.1	1260.2	1265.8	1265.0	1261.0
12.5°	1243.6	1246.0	1252.3	1252.3	1249.9
15°	1223.7	1228.5	1236.4	1241.2	1238.0
17.5°	1203.1	1207.8	1218.2	1222.9	1221.3
20°	1180.0	1184.0	1194.3	1201.5	1198.3
22.5°	1151.5	1156.2	1168.1	1176.1	1172.9
25°	1119.7	1126.8	1139.5	1151.5	1147.5
27.5°	1087.9	1095.9	1111.8	1123.7	1122.1
30°	1053.0	1063.3	1080.0	1095.1	1091.9
32.5°	1017.3	1029.2	1046.6	1062.5	1061.7
35°	979.9	992.6	1011.7	1030.0	1029.2
37.5°	940.2	955.3	975.2	995.0	995.8
40°	901.3	915.6	937.8	959.3	960.1
42.5°	860.0	875.1	898.9	921.2	922.0
45°	816.3	833.8	857.6	881.5	885.4
47.5°	771.9	790.1	814.8	840.2	844.9
50°	725.8	744.9	771.1	798.1	802.8
52.5°	679.0	698.8	725.8	752.8	760.0
55°	632.9	651.2	680.6	709.9	716.3
57.5°	584.5	601.1	632.9	663.9	671.8
60°	531.3	551.9	584.5	615.4	628.1
62.5°	479.6	501.9	535.2	566.2	580.5
65°	428.0	450.3	484.4	517.0	531.3
67.5°	375.6	398.6	435.2	466.1	482.0
70°	323.2	346.2	381.2	414.5	431.2
72.5°	270.8	295.4	329.6	363.7	380.4
75°	217.6	243.0	277.9	311.3	331.9
77.5°	167.6	192.2	227.1	261.3	278.7
80°	119.9	144.5	178.7	212.8	231.1
82.5°	76.2	99.3	132.6	161.2	177.9
85°	39.7	58.8	84.2	93.7	104.8
87.5°	11.9	23.0	32.6	36.5	45.3
90°	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: 22CZSP-SB-37HE-L840

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	16.35	18.01	16.72	18.33	18.64	17.10	18.76	17.46	19.08	19.39
	3H	18.11	19.62	18.49	19.95	20.31	19.19	20.70	19.57	21.03	21.39
	4H	18.74	20.16	19.14	20.51	20.88	20.08	21.50	20.48	21.85	22.22
	6H	19.15	20.47	19.56	20.84	21.23	20.85	22.17	21.26	22.53	22.92
	8H	19.26	20.52	19.68	20.91	21.31	21.16	22.42	21.58	22.81	23.21
	12H	19.31	20.52	19.74	20.90	21.33	21.37	22.58	21.80	22.96	23.39
4H	2H	17.12	18.54	17.52	18.89	19.27	17.70	19.12	18.10	19.47	19.85
	3H	19.12	20.31	19.52	20.71	21.11	20.03	21.23	20.44	21.63	22.02
	4H	19.87	20.96	20.30	21.37	21.80	21.07	22.15	21.50	22.56	23.00
	6H	20.41	21.36	20.86	21.80	22.25	22.00	22.95	22.45	23.39	23.84
	8H	20.55	21.45	21.01	21.89	22.35	22.38	23.27	22.84	23.71	24.18
	12H	20.64	21.44	21.12	21.92	22.39	22.66	23.46	23.13	23.93	24.40
8H	4H	20.32	21.21	20.78	21.66	22.12	21.37	22.26	21.82	22.70	23.16
	6H	21.00	21.74	21.49	22.23	22.70	22.45	23.19	22.94	23.68	24.15
	8H	21.22	21.89	21.73	22.39	22.88	22.94	23.61	23.44	24.11	24.60
	12H	21.37	21.96	21.87	22.45	23.01	23.31	23.90	23.82	24.39	24.95
12H	4H	20.41	21.21	20.88	21.68	22.15	21.39	22.20	21.87	22.67	23.14
	6H	21.13	21.80	21.63	22.30	22.79	22.50	23.17	23.01	23.68	24.16
	8H	21.42	22.01	21.92	22.50	23.06	23.06	23.65	23.56	24.14	24.70