

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: P1587656

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587656
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-L840-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

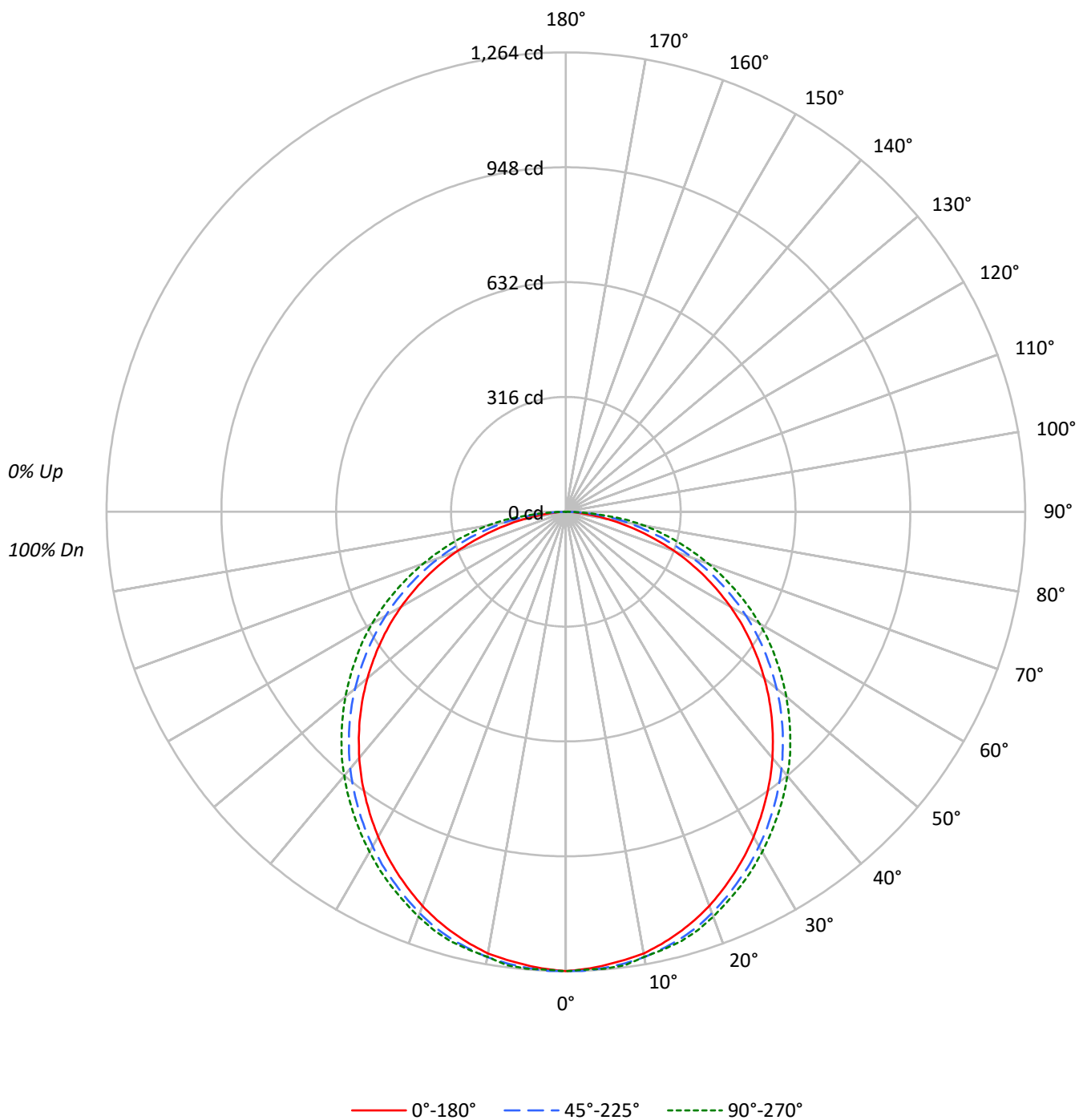
Lumens per Lamp: N/A
Luminaire Lumens: 3677.0 lumens
Efficiency: N/A
Efficacy: 152.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	3958	3958	3958
5°	3936	3958	3966
10°	3924	3956	3954
15°	3888	3944	3967
20°	3846	3917	3951
25°	3791	3878	3927
30°	3735	3844	3907
35°	3674	3807	3888
40°	3615	3773	3877
45°	3548	3734	3867
50°	3472	3688	3857
55°	3385	3640	3852
60°	3279	3587	3854
65°	3130	3511	3833
70°	2926	3404	3824
75°	2594	3273	3838
80°	2112	3109	3951
85°	1365	2871	3410

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4004 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.6	3.3
10°-20°	342.5	9.3
20°-30°	516.5	14.0
30°-40°	621.4	16.9
40°-50°	648.2	17.6
50°-60°	594.2	16.2
60°-70°	466.6	12.7
70°-80°	284.0	7.7
80°-90°	84.0	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°	978.6	26.6
0°-40°	1600.1	43.5
0°-60°	2842.5	77.3
0°-90°	3677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3677.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1264	1264	1264	1264	1264	
5°	1252	1260	1259	1258	1262	119
15°	1199	1211	1217	1218	1224	338
25°	1097	1112	1122	1130	1137	506
35°	961	976	996	1010	1017	601
45°	801	818	843	863	873	618
55°	620	636	667	694	706	554
65°	422	438	474	506	517	418
75°	214	234	270	303	317	227
85°	38	54	80	89	95	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1264.0	1264.0	1264.0	1264.0	1264.0
2.5°	1259.3	1265.6	1264.0	1258.5	1260.9
5°	1252.2	1260.1	1259.3	1257.7	1261.7
7.5°	1243.5	1252.2	1253.0	1253.0	1257.7
10°	1234.0	1242.7	1244.3	1241.9	1243.5
12.5°	1218.1	1228.4	1231.6	1231.6	1234.0
15°	1199.2	1211.0	1216.6	1218.1	1223.7
17.5°	1178.6	1191.3	1198.4	1202.3	1207.1
20°	1154.1	1167.5	1175.4	1180.2	1185.7
22.5°	1126.4	1141.4	1150.1	1154.9	1161.2
25°	1097.1	1112.2	1122.4	1129.6	1136.7
27.5°	1066.3	1080.5	1094.8	1103.5	1109.8
30°	1033.1	1048.1	1063.1	1074.2	1080.5
32.5°	997.5	1013.3	1030.7	1042.5	1049.7
35°	961.1	976.1	995.9	1010.1	1017.2
37.5°	923.9	939.7	960.3	975.3	984.0
40°	884.3	901.0	923.1	939.7	948.4
42.5°	843.2	859.0	883.6	902.5	912.8
45°	801.3	817.9	843.2	863.0	873.3
47.5°	757.8	773.6	801.3	824.2	832.9
50°	712.7	727.7	757.0	781.5	791.8
52.5°	666.8	682.6	711.9	738.0	749.1
55°	620.1	636.0	666.8	693.7	705.6
57.5°	572.7	588.5	620.1	647.8	662.1
60°	523.6	539.5	572.7	601.2	615.4
62.5°	473.0	489.6	523.6	552.9	567.9
65°	422.4	438.2	473.8	505.5	517.3
67.5°	371.8	387.6	422.4	454.0	468.3
70°	319.6	337.8	371.8	405.0	417.7
72.5°	265.0	285.6	319.6	354.4	367.0
75°	214.4	234.1	270.5	303.0	317.2
77.5°	164.5	185.9	219.9	253.1	267.4
80°	117.1	137.6	172.4	204.1	219.1
82.5°	74.4	92.5	127.4	155.8	166.9
85°	38.0	53.8	79.9	89.4	94.9
87.5°	11.1	19.0	28.5	35.6	39.6
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	16.28	17.94	16.64	18.25	18.57	17.01	18.67	17.38	18.99	19.30
	3H	18.05	19.55	18.42	19.88	20.24	19.09	20.60	19.47	20.92	21.28
	4H	18.67	20.09	19.07	20.43	20.81	19.96	21.38	20.36	21.73	22.10
	6H	19.08	20.39	19.49	20.76	21.15	20.70	22.02	21.11	22.39	22.78
	8H	19.18	20.44	19.60	20.83	21.23	21.00	22.26	21.42	22.65	23.05
	12H	19.23	20.44	19.66	20.82	21.25	21.19	22.40	21.62	22.78	23.21
4H	2H	17.05	18.47	17.45	18.81	19.19	17.62	19.04	18.02	19.39	19.76
	3H	19.04	20.23	19.45	20.63	21.03	19.93	21.13	20.34	21.52	21.92
	4H	19.78	20.87	20.21	21.28	21.71	20.95	22.03	21.38	22.45	22.88
	6H	20.31	21.26	20.76	21.70	22.15	21.86	22.81	22.31	23.25	23.70
	8H	20.45	21.34	20.91	21.78	22.25	22.22	23.11	22.68	23.55	24.02
	12H	20.53	21.33	21.01	21.81	22.28	22.48	23.28	22.96	23.75	24.22
8H	4H	20.23	21.12	20.69	21.56	22.02	21.25	22.14	21.71	22.58	23.04
	6H	20.89	21.63	21.38	22.12	22.59	22.31	23.05	22.80	23.53	24.01
	8H	21.10	21.77	21.61	22.27	22.76	22.78	23.44	23.29	23.95	24.43
	12H	21.24	21.83	21.74	22.32	22.87	23.13	23.72	23.63	24.21	24.77
12H	4H	20.31	21.11	20.79	21.58	22.05	21.27	22.08	21.75	22.55	23.02
	6H	21.01	21.68	21.52	22.19	22.67	22.36	23.02	22.86	23.53	24.01
	8H	21.29	21.88	21.80	22.37	22.93	22.89	23.48	23.40	23.97	24.53