

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: P1587661

Luminaire Tested: 22CZSP-SB-37HE-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587661
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-L850
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

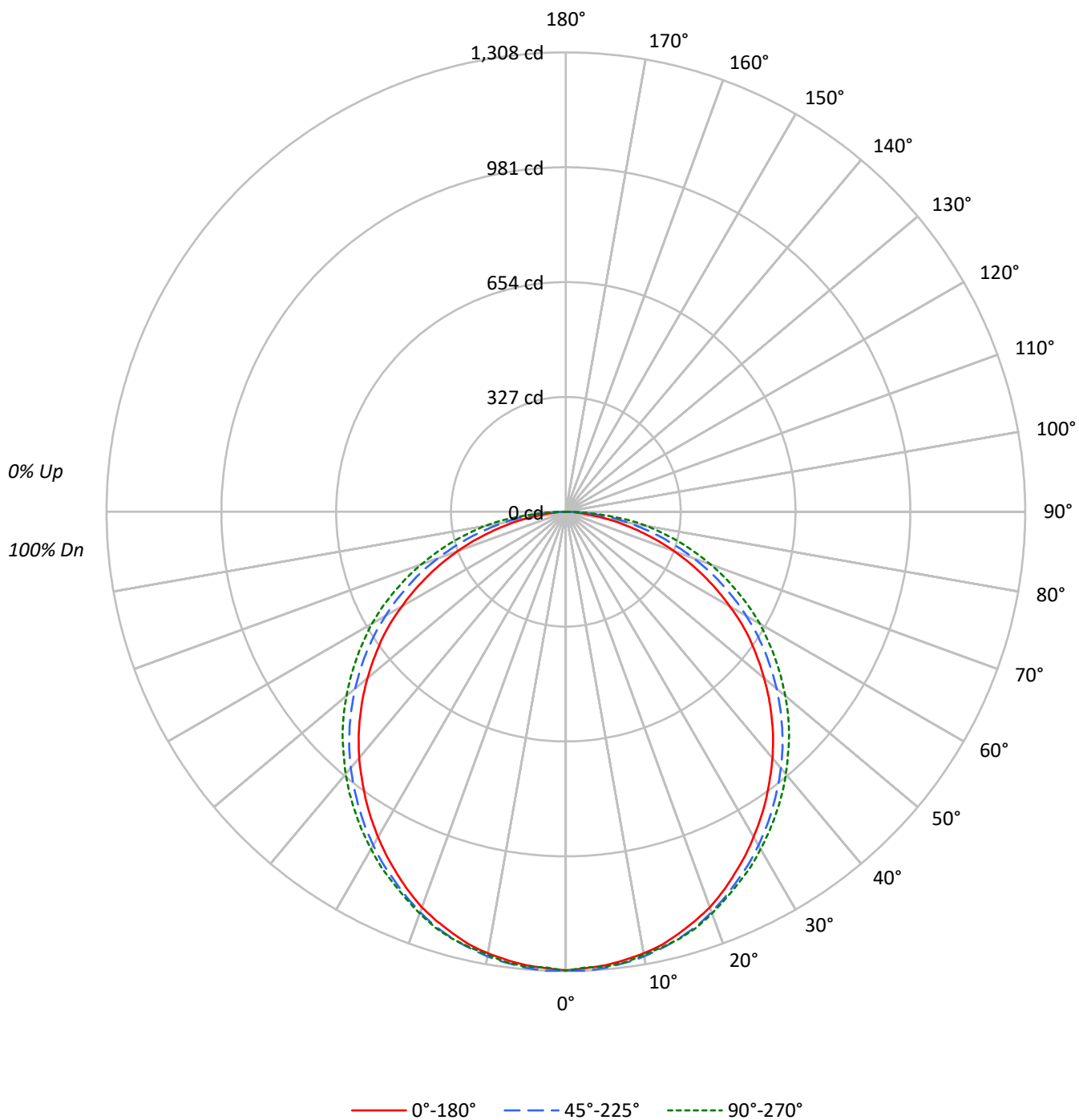
Lumens per Lamp: N/A
Luminaire Lumens: 3811.0 lumens
Efficiency: N/A
Efficacy: 158.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	4089	4089	4089
5°	4074	4097	4087
10°	4060	4088	4073
15°	4030	4071	4077
20°	3994	4042	4056
25°	3929	3999	4027
30°	3867	3966	4010
35°	3805	3928	3996
40°	3742	3894	3986
45°	3672	3858	3983
50°	3591	3815	3973
55°	3510	3774	3972
60°	3379	3718	3996
65°	3222	3645	3998
70°	3006	3545	4010
75°	2674	3415	4080
80°	2196	3273	4232
85°	1448	3072	3826

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4335 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.5	3.2
10°-20°	353.6	9.3
20°-30°	532.9	14.0
30°-40°	641.8	16.8
40°-50°	670.5	17.6
50°-60°	616.0	16.2
60°-70°	485.1	12.7
70°-80°	297.4	7.8
80°-90°	90.2	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°	1010.0	26.5
0°-40°	1651.8	43.3
0°-60°	2938.3	77.1
0°-90°	3811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3811.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1306	1306	1306	1306	1306	
5°	1296	1299	1304	1302	1300	123
15°	1243	1248	1256	1261	1258	351
25°	1137	1145	1158	1170	1166	524
35°	995	1008	1028	1046	1045	623
45°	829	847	871	895	899	640
55°	643	661	691	721	728	574
65°	435	457	492	525	540	430
75°	221	247	282	316	337	235
85°	40	60	86	95	106	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1305.9	1305.9	1305.9	1305.9	1305.9
2.5°	1301.0	1304.3	1308.3	1301.8	1298.6
5°	1296.2	1298.6	1303.5	1301.8	1300.2
7.5°	1287.3	1288.9	1295.4	1295.4	1293.8
10°	1276.8	1280.1	1285.7	1284.9	1280.9
12.5°	1263.1	1265.5	1272.0	1272.0	1269.6
15°	1243.0	1247.8	1255.9	1260.7	1257.5
17.5°	1222.0	1226.8	1237.3	1242.2	1240.5
20°	1198.6	1202.6	1213.1	1220.4	1217.2
22.5°	1169.6	1174.4	1186.5	1194.6	1191.3
25°	1137.3	1144.6	1157.5	1169.6	1165.5
27.5°	1105.0	1113.1	1129.2	1141.3	1139.7
30°	1069.5	1080.0	1097.0	1112.3	1109.1
32.5°	1033.2	1045.3	1063.1	1079.2	1078.4
35°	995.3	1008.2	1027.6	1046.2	1045.3
37.5°	955.0	970.3	990.5	1010.7	1011.5
40°	915.5	930.0	952.6	974.4	975.2
42.5°	873.5	888.9	913.1	935.7	936.5
45°	829.2	846.9	871.1	895.3	899.4
47.5°	784.0	802.6	827.6	853.4	858.2
50°	737.2	756.6	783.2	810.6	815.5
52.5°	689.6	709.8	737.2	764.7	771.9
55°	642.9	661.4	691.3	721.1	727.5
57.5°	593.7	610.6	642.9	674.3	682.4
60°	539.6	560.6	593.7	625.1	638.0
62.5°	487.2	509.8	543.6	575.1	589.6
65°	434.8	457.3	492.0	525.1	539.6
67.5°	381.5	404.9	442.0	473.5	489.6
70°	328.3	351.7	387.2	421.0	438.0
72.5°	275.0	300.1	334.7	369.4	386.4
75°	221.0	246.8	282.3	316.2	337.2
77.5°	170.2	195.2	230.7	265.4	283.1
80°	121.8	146.8	181.5	216.2	234.7
82.5°	77.4	100.8	134.7	163.7	180.7
85°	40.3	59.7	85.5	95.2	106.5
87.5°	12.1	23.4	33.1	37.1	46.0
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	16.41	18.07	16.77	18.38	18.70	17.15	18.82	17.52	19.13	19.44
	3H	18.17	19.68	18.55	20.00	20.36	19.25	20.76	19.62	21.08	21.44
	4H	18.79	20.22	19.19	20.56	20.94	20.13	21.56	20.53	21.90	22.28
	6H	19.21	20.53	19.62	20.89	21.28	20.90	22.22	21.31	22.58	22.97
	8H	19.31	20.57	19.74	20.96	21.36	21.21	22.47	21.63	22.86	23.26
	12H	19.36	20.57	19.79	20.96	21.38	21.42	22.63	21.85	23.02	23.44
4H	2H	17.18	18.60	17.57	18.95	19.32	17.76	19.18	18.15	19.53	19.90
	3H	19.17	20.37	19.58	20.76	21.16	20.08	21.28	20.49	21.68	22.08
	4H	19.92	21.01	20.35	21.42	21.86	21.12	22.21	21.55	22.62	23.05
	6H	20.46	21.41	20.91	21.85	22.31	22.05	23.00	22.50	23.44	23.90
	8H	20.61	21.50	21.07	21.94	22.41	22.43	23.33	22.89	23.77	24.23
	12H	20.69	21.50	21.17	21.97	22.44	22.71	23.51	23.19	23.99	24.46
8H	4H	20.38	21.27	20.83	21.71	22.17	21.42	22.31	21.88	22.75	23.22
	6H	21.05	21.80	21.55	22.28	22.76	22.50	23.25	23.00	23.73	24.21
	8H	21.27	21.94	21.78	22.45	22.93	22.99	23.66	23.50	24.16	24.65
	12H	21.42	22.01	21.93	22.50	23.06	23.37	23.96	23.87	24.45	25.01
12H	4H	20.46	21.26	20.94	21.74	22.21	21.45	22.25	21.93	22.73	23.19
	6H	21.18	21.85	21.69	22.36	22.84	22.56	23.23	23.06	23.73	24.22
	8H	21.47	22.06	21.98	22.55	23.11	23.11	23.70	23.61	24.19	24.75

END OF REPORT