

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: P1585659

Luminaire Tested: 14CZSP-SB-37HE-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-37HE-L845
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

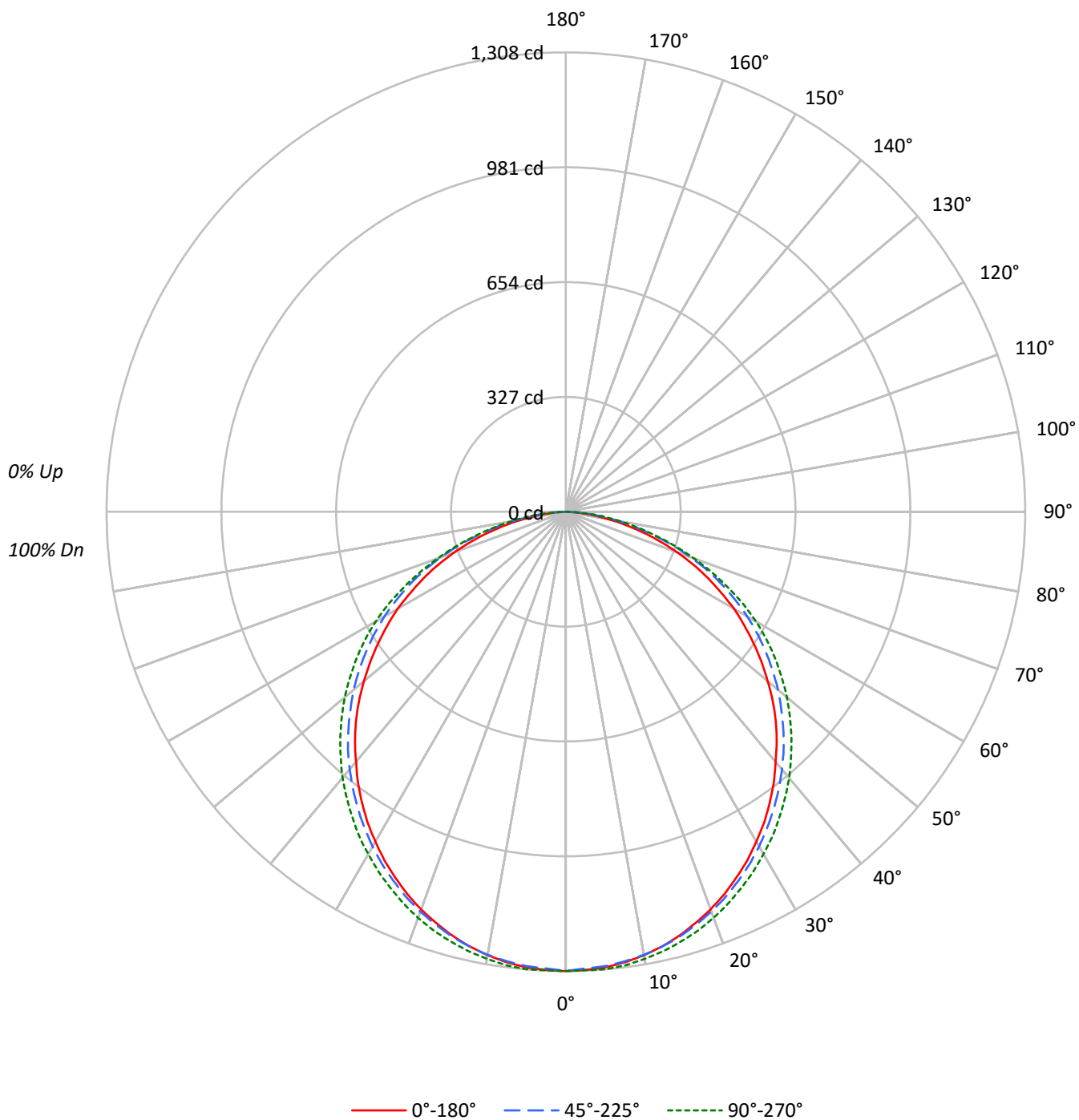
Lumens per Lamp: N/A
Luminaire Lumens: 3778.0 lumens
Efficiency: N/A
Efficacy: 153.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
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	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4406	4406	4406
5°	4403	4392	4422
10°	4387	4383	4422
15°	4359	4368	4420
20°	4321	4346	4412
25°	4273	4314	4395
30°	4220	4281	4379
35°	4162	4247	4363
40°	4089	4211	4352
45°	4030	4172	4328
50°	3934	4134	4308
55°	3833	4079	4274
60°	3730	4019	4217
65°	3562	3914	4057
70°	3324	3737	3828
75°	2962	3386	3485
80°	2418	2936	3083
85°	1601	2335	2505

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4328 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.9	3.3
10°-20°	354.8	9.4
20°-30°	537.1	14.2
30°-40°	648.4	17.2
40°-50°	677.1	17.9
50°-60°	619.4	16.4
60°-70°	478.9	12.7
70°-80°	271.1	7.2
80°-90°	67.4	1.8
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°	1015.8	26.9
0°-40°	1664.2	44.0
0°-60°	2960.7	78.4
0°-90°	3778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3778.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1308	1308	1308	1308	1308	
5°	1302	1311	1298	1300	1307	124
15°	1250	1260	1252	1258	1267	352
25°	1149	1164	1160	1171	1182	530
35°	1012	1026	1032	1050	1061	633
45°	846	862	876	898	908	651
55°	652	672	694	716	728	583
65°	447	465	491	506	509	441
75°	228	247	260	267	268	241
85°	41	48	60	63	65	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1307.7	1307.7	1307.7	1307.7	1307.7
2.5°	1306.1	1315.3	1301.2	1303.9	1306.6
5°	1301.7	1311.0	1298.5	1299.6	1307.2
7.5°	1293.6	1303.9	1290.9	1293.0	1302.3
10°	1282.1	1292.5	1281.1	1283.2	1292.5
12.5°	1267.5	1277.8	1268.0	1271.3	1281.6
15°	1249.5	1260.4	1252.2	1258.2	1266.9
17.5°	1227.7	1241.3	1232.6	1241.9	1250.6
20°	1204.9	1218.5	1211.9	1220.1	1230.4
22.5°	1178.7	1192.4	1187.5	1196.2	1207.6
25°	1149.4	1164.1	1160.2	1171.1	1182.0
27.5°	1118.9	1133.0	1131.9	1143.9	1155.3
30°	1084.6	1099.8	1100.4	1114.5	1125.4
32.5°	1050.3	1063.9	1067.2	1083.0	1095.5
35°	1011.7	1025.8	1032.4	1049.8	1060.7
37.5°	972.5	988.3	995.4	1014.4	1025.8
40°	929.5	947.5	957.3	977.4	989.4
42.5°	888.7	905.0	918.1	938.2	949.1
45°	845.7	862.0	875.6	897.9	908.3
47.5°	799.4	817.4	832.1	853.9	865.3
50°	750.5	770.1	788.6	809.8	821.8
52.5°	702.0	721.1	742.3	763.0	774.9
55°	652.5	672.1	694.4	716.2	727.6
57.5°	602.4	622.0	646.5	666.1	678.1
60°	553.5	571.4	596.4	616.0	625.8
62.5°	497.9	518.6	544.2	563.8	569.2
65°	446.8	465.3	490.9	505.6	508.8
67.5°	392.4	410.9	436.5	444.6	449.5
70°	337.4	357.0	379.3	384.8	388.6
72.5°	281.9	302.0	319.4	324.9	328.2
75°	227.5	247.1	260.1	266.7	267.7
77.5°	174.7	192.6	204.6	212.2	212.2
80°	124.6	138.2	151.3	159.5	158.9
82.5°	79.5	89.8	103.4	109.4	113.2
85°	41.4	47.9	60.4	63.1	64.8
87.5°	13.1	16.9	21.8	18.0	17.4
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	16.83	18.48	17.20	18.80	19.11	17.37	19.02	17.74	19.34	19.65
	3H	18.61	20.10	18.98	20.43	20.79	19.23	20.73	19.61	21.05	21.41
	4H	19.23	20.64	19.63	20.98	21.36	19.91	21.31	20.30	21.66	22.04
	6H	19.63	20.94	20.04	21.30	21.69	20.39	21.70	20.80	22.06	22.45
	8H	19.74	20.98	20.16	21.37	21.77	20.55	21.80	20.97	22.18	22.58
	12H	19.78	20.98	20.21	21.36	21.79	20.65	21.84	21.07	22.22	22.65
4H	2H	17.57	18.98	17.97	19.33	19.70	17.99	19.40	18.39	19.75	20.12
	3H	19.56	20.75	19.97	21.14	21.54	20.07	21.25	20.48	21.65	22.05
	4H	20.31	21.38	20.74	21.80	22.23	20.87	21.94	21.30	22.36	22.79
	6H	20.83	21.77	21.29	22.21	22.66	21.49	22.42	21.94	22.86	23.32
	8H	20.97	21.84	21.43	22.28	22.75	21.69	22.57	22.15	23.01	23.47
	12H	21.04	21.83	21.52	22.31	22.77	21.83	22.62	22.31	23.09	23.56
8H	4H	20.67	21.54	21.13	21.98	22.45	21.16	22.04	21.62	22.48	22.94
	6H	21.30	22.03	21.79	22.52	22.99	21.89	22.62	22.39	23.11	23.58
	8H	21.49	22.15	22.00	22.65	23.14	22.17	22.82	22.68	23.33	23.81
	12H	21.62	22.20	22.13	22.69	23.25	22.37	22.95	22.88	23.44	24.00
12H	4H	20.71	21.50	21.19	21.97	22.44	21.19	21.97	21.67	22.45	22.92
	6H	21.36	22.02	21.87	22.52	23.01	21.94	22.59	22.44	23.10	23.58
	8H	21.61	22.19	22.12	22.68	23.24	22.26	22.84	22.77	23.33	23.89