

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: P1585653

Luminaire Tested: 14CZSP-SB-37HE-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585653
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-L830
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

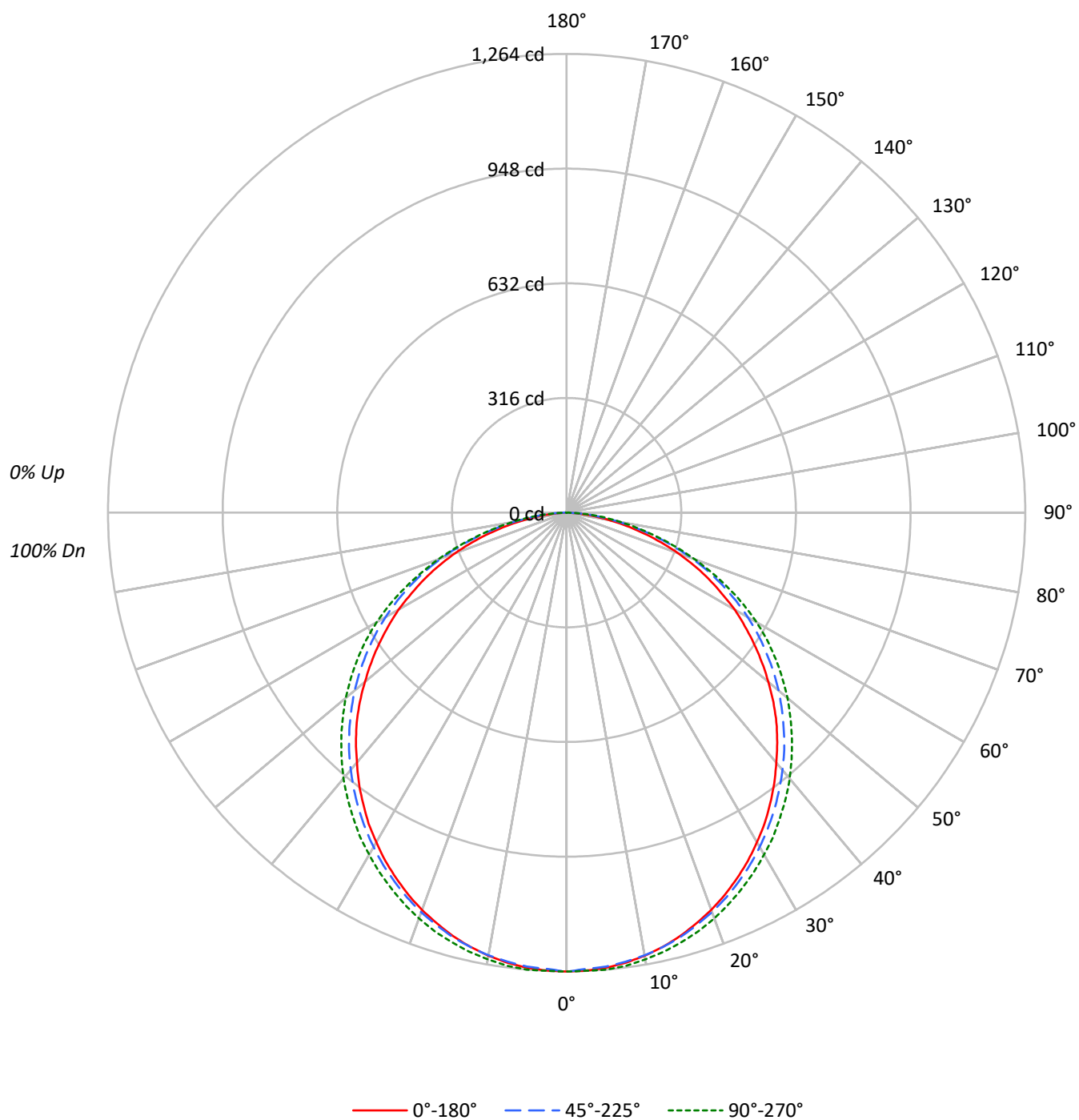
Lumens per Lamp: N/A
Luminaire Lumens: 3653.0 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4261	4261	4261
5°	4257	4247	4275
10°	4242	4238	4276
15°	4215	4224	4273
20°	4177	4202	4266
25°	4132	4171	4249
30°	4080	4140	4234
35°	4024	4106	4219
40°	3953	4071	4208
45°	3897	4035	4185
50°	3804	3997	4165
55°	3706	3944	4133
60°	3606	3886	4078
65°	3444	3784	3923
70°	3214	3614	3701
75°	2864	3274	3371
80°	2338	2839	2982
85°	1546	2258	2420

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4185 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	3.3
10°-20°	343.1	9.4
20°-30°	519.4	14.2
30°-40°	626.9	17.2
40°-50°	654.7	17.9
50°-60°	598.9	16.4
60°-70°	463.0	12.7
70°-80°	262.1	7.2
80°-90°	65.1	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°	982.2	26.9
0°-40°	1609.1	44.0
0°-60°	2862.7	78.4
0°-90°	3653.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3653.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1264	1264	1264	1264	1264	
5°	1259	1268	1256	1257	1264	120
15°	1208	1219	1211	1217	1225	341
25°	1111	1126	1122	1132	1143	512
35°	978	992	998	1015	1026	612
45°	818	834	847	868	878	630
55°	631	650	671	692	704	564
65°	432	450	475	489	492	426
75°	220	239	252	258	259	233
85°	40	46	58	61	63	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1264.5	1264.5	1264.5	1264.5	1264.5
2.5°	1262.9	1271.8	1258.1	1260.8	1263.4
5°	1258.7	1267.6	1255.5	1256.6	1263.9
7.5°	1250.8	1260.8	1248.1	1250.3	1259.2
10°	1239.7	1249.7	1238.7	1240.8	1249.7
12.5°	1225.5	1235.5	1226.0	1229.2	1239.2
15°	1208.2	1218.7	1210.8	1216.6	1225.0
17.5°	1187.1	1200.3	1191.8	1200.8	1209.2
20°	1165.0	1178.2	1171.8	1179.7	1189.7
22.5°	1139.7	1152.9	1148.2	1156.6	1167.6
25°	1111.3	1125.5	1121.9	1132.4	1142.9
27.5°	1081.9	1095.5	1094.5	1106.1	1117.1
30°	1048.7	1063.4	1064.0	1077.7	1088.2
32.5°	1015.6	1028.7	1031.9	1047.1	1059.2
35°	978.2	991.9	998.2	1015.0	1025.6
37.5°	940.3	955.6	962.4	980.8	991.9
40°	898.7	916.1	925.6	945.1	956.6
42.5°	859.3	875.1	887.7	907.2	917.7
45°	817.7	833.5	846.7	868.2	878.2
47.5°	773.0	790.4	804.6	825.6	836.7
50°	725.6	744.6	762.5	783.0	794.6
52.5°	678.8	697.2	717.7	737.7	749.3
55°	630.9	649.9	671.4	692.5	703.5
57.5°	582.5	601.4	625.1	644.1	655.6
60°	535.1	552.5	576.7	595.7	605.1
62.5°	481.5	501.5	526.2	545.1	550.4
65°	432.0	449.9	474.6	488.8	492.0
67.5°	379.4	397.3	422.0	429.9	434.6
70°	326.2	345.2	366.8	372.0	375.7
72.5°	272.6	292.0	308.9	314.1	317.3
75°	220.0	238.9	251.5	257.8	258.9
77.5°	168.9	186.3	197.9	205.2	205.2
80°	120.5	133.7	146.3	154.2	153.7
82.5°	76.8	86.8	100.0	105.8	109.4
85°	40.0	46.3	58.4	61.0	62.6
87.5°	12.6	16.3	21.0	17.4	16.8
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	16.72	18.37	17.08	18.68	18.99	17.26	18.91	17.62	19.22	19.54
	3H	18.49	19.98	18.86	20.31	20.67	19.12	20.61	19.49	20.94	21.30
	4H	19.11	20.52	19.51	20.87	21.24	19.79	21.20	20.19	21.54	21.92
	6H	19.52	20.82	19.93	21.19	21.58	20.27	21.58	20.68	21.94	22.33
	8H	19.62	20.87	20.04	21.25	21.65	20.43	21.68	20.85	22.07	22.47
	12H	19.67	20.86	20.10	21.24	21.67	20.53	21.72	20.96	22.11	22.53
4H	2H	17.45	18.86	17.85	19.21	19.58	17.88	19.28	18.27	19.63	20.01
	3H	19.45	20.63	19.86	21.03	21.42	19.95	21.14	20.36	21.53	21.93
	4H	20.20	21.27	20.63	21.68	22.11	20.76	21.83	21.19	22.24	22.67
	6H	20.72	21.65	21.17	22.09	22.54	21.37	22.31	21.82	22.75	23.20
	8H	20.85	21.73	21.31	22.17	22.63	21.57	22.45	22.03	22.89	23.36
	12H	20.93	21.71	21.41	22.19	22.66	21.71	22.50	22.19	22.97	23.44
8H	4H	20.55	21.43	21.01	21.87	22.33	21.05	21.92	21.51	22.36	22.83
	6H	21.18	21.91	21.68	22.40	22.87	21.78	22.51	22.27	22.99	23.47
	8H	21.38	22.03	21.89	22.54	23.02	22.05	22.70	22.56	23.21	23.69
	12H	21.50	22.08	22.01	22.57	23.13	22.26	22.83	22.76	23.32	23.88
12H	4H	20.59	21.38	21.07	21.85	22.32	21.07	21.86	21.55	22.33	22.80
	6H	21.25	21.90	21.76	22.41	22.89	21.82	22.47	22.33	22.98	23.46
	8H	21.50	22.07	22.00	22.56	23.12	22.15	22.72	22.65	23.21	23.77