

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: P1585668

Luminaire Tested: 14CZSP-SB-37HE-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-37HE-L945-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

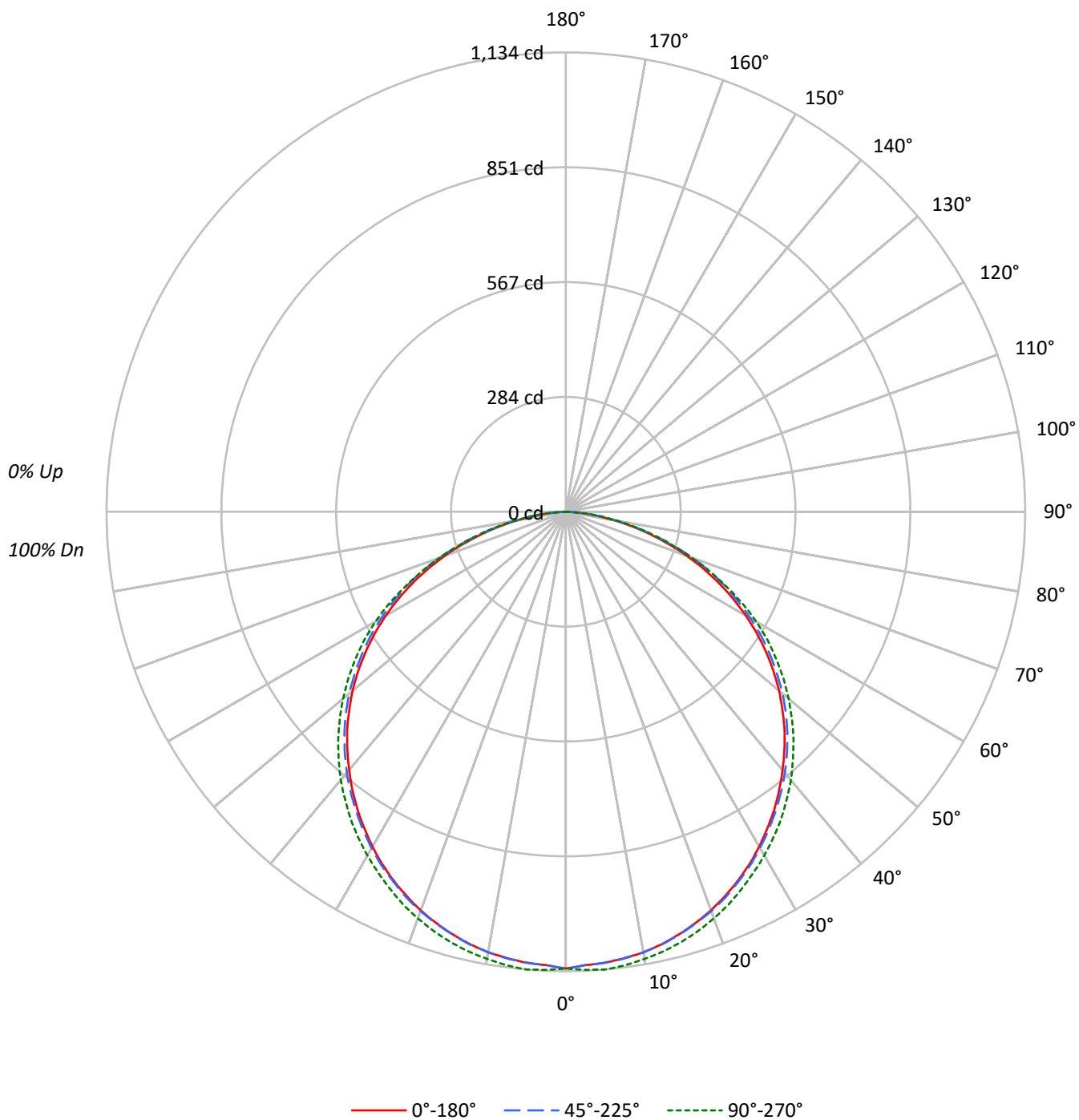
Lumens per Lamp: N/A
Luminaire Lumens: 3327.0 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	99	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3799	3799	3799
5°	3781	3779	3836
10°	3779	3777	3835
15°	3768	3771	3837
20°	3756	3763	3831
25°	3737	3747	3818
30°	3715	3731	3812
35°	3690	3713	3810
40°	3661	3700	3803
45°	3639	3685	3787
50°	3602	3658	3763
55°	3547	3612	3726
60°	3461	3550	3660
65°	3330	3456	3493
70°	3132	3278	3257
75°	2812	2932	2951
80°	2323	2441	2571
85°	1554	1813	1910

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3787 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	3.2
10°-20°	307.1	9.2
20°-30°	467.7	14.1
30°-40°	569.2	17.1
40°-50°	600.1	18.0
50°-60°	552.7	16.6
60°-70°	426.9	12.8
70°-80°	238.9	7.2
80°-90°	57.6	1.7
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°	881.7	26.5
0°-40°	1450.9	43.6
0°-60°	2603.7	78.3
0°-90°	3327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3327.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1127	1127	1127	1127	1127	
5°	1118	1134	1117	1119	1134	106
15°	1080	1095	1081	1087	1100	305
25°	1005	1019	1008	1014	1027	463
35°	897	910	903	914	926	561
45°	764	774	773	785	795	588
55°	604	614	615	628	634	539
65°	418	430	434	438	438	413
75°	216	229	225	225	227	229
85°	40	44	47	52	49	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1127.4	1127.4	1127.4	1127.4	1127.4
2.5°	1120.3	1136.6	1120.3	1122.8	1132.0
5°	1117.7	1133.5	1117.2	1118.7	1134.0
7.5°	1111.1	1127.4	1112.1	1114.2	1128.9
10°	1104.5	1119.2	1104.0	1106.5	1120.8
12.5°	1093.3	1108.5	1094.3	1097.3	1111.6
15°	1080.0	1094.8	1081.0	1087.2	1099.9
17.5°	1064.7	1079.0	1065.8	1072.9	1085.1
20°	1047.4	1061.2	1049.5	1054.5	1068.3
22.5°	1027.0	1041.3	1030.1	1034.7	1049.5
25°	1005.1	1019.4	1007.7	1014.3	1027.0
27.5°	981.2	994.9	984.8	992.9	1004.1
30°	954.7	967.9	958.8	968.5	979.7
32.5°	926.2	940.4	931.3	942.5	953.7
35°	897.1	910.4	902.7	913.9	926.2
37.5°	865.5	878.3	872.7	884.4	895.6
40°	832.4	846.7	841.1	853.3	864.5
42.5°	798.3	812.1	807.5	820.2	829.9
45°	763.7	774.4	773.3	785.1	794.7
47.5°	725.4	738.7	736.7	748.4	757.0
50°	687.2	697.9	697.9	709.1	717.8
52.5°	646.0	656.7	656.7	669.9	677.1
55°	603.7	613.9	614.9	627.6	634.3
57.5°	558.9	569.6	571.6	584.3	590.4
60°	513.5	523.7	526.8	539.5	543.1
62.5°	466.1	478.4	479.9	490.1	492.1
65°	417.7	430.0	433.5	437.6	438.1
67.5°	368.3	381.1	384.6	384.6	384.6
70°	317.9	329.6	332.7	330.6	330.6
72.5°	266.9	279.7	278.2	276.1	277.1
75°	216.0	229.2	225.2	224.7	226.7
77.5°	167.1	179.8	173.2	177.3	177.8
80°	119.7	129.4	125.8	131.9	132.5
82.5°	76.9	83.0	84.1	89.2	87.6
85°	40.2	44.3	46.9	52.5	49.4
87.5°	12.7	16.8	15.3	17.8	13.8
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	16.67	18.33	17.04	18.64	18.96	16.89	18.54	17.25	18.86	19.17
	3H	18.49	19.99	18.87	20.32	20.68	18.69	20.19	19.06	20.51	20.87
	4H	19.14	20.55	19.54	20.90	21.27	19.33	20.74	19.72	21.09	21.46
	6H	19.57	20.88	19.98	21.24	21.63	19.78	21.09	20.19	21.45	21.84
	8H	19.68	20.93	20.10	21.32	21.72	19.91	21.16	20.33	21.55	21.95
	12H	19.73	20.93	20.16	21.31	21.74	19.99	21.19	20.42	21.57	22.00
4H	2H	17.35	18.76	17.75	19.11	19.49	17.52	18.93	17.92	19.28	19.65
	3H	19.39	20.58	19.80	20.97	21.37	19.53	20.72	19.94	21.12	21.52
	4H	20.17	21.24	20.60	21.66	22.09	20.29	21.36	20.72	21.78	22.21
	6H	20.72	21.66	21.17	22.10	22.55	20.87	21.80	21.32	22.24	22.70
	8H	20.87	21.74	21.33	22.19	22.65	21.04	21.92	21.50	22.36	22.83
	12H	20.95	21.74	21.43	22.21	22.68	21.16	21.94	21.63	22.42	22.89
8H	4H	20.48	21.36	20.94	21.80	22.26	20.59	21.46	21.05	21.91	22.37
	6H	21.14	21.87	21.63	22.35	22.83	21.27	22.00	21.76	22.49	22.96
	8H	21.34	22.00	21.85	22.50	22.99	21.51	22.16	22.02	22.67	23.15
	12H	21.48	22.06	21.98	22.55	23.11	21.68	22.26	22.19	22.75	23.31
12H	4H	20.51	21.30	20.99	21.77	22.24	20.62	21.40	21.09	21.88	22.35
	6H	21.18	21.84	21.69	22.34	22.83	21.31	21.97	21.82	22.47	22.96
	8H	21.44	22.02	21.95	22.51	23.07	21.60	22.18	22.11	22.67	23.23