

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: P1585669

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585669
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-L945
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

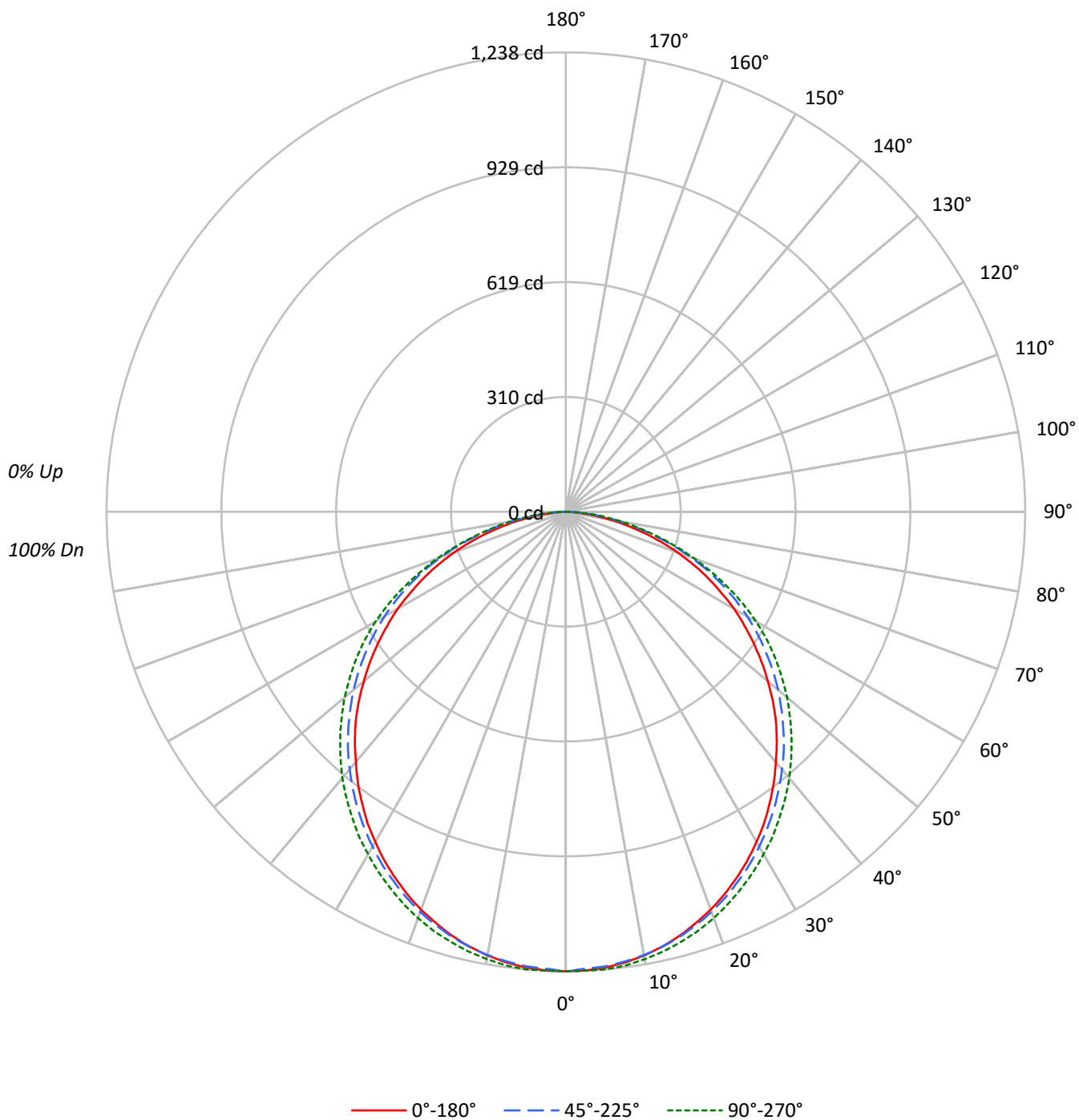
Lumens per Lamp: N/A
Luminaire Lumens: 3578.0 lumens
Efficiency: N/A
Efficacy: 144.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1585669

CATALOG NUMBER: 14CZSP-SB-37HE-L945

Luminous Intensity Polar Plot



TEST NUMBER: P1585669

CATALOG NUMBER: 14CZSP-SB-37HE-L945

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°	4173	4173	4173
5°	4170	4159	4187
10°	4155	4151	4188
15°	4128	4137	4185
20°	4092	4116	4179
25°	4047	4085	4162
30°	3997	4055	4147
35°	3941	4022	4132
40°	3872	3988	4122
45°	3817	3952	4099
50°	3726	3915	4079
55°	3631	3863	4048
60°	3533	3807	3994
65°	3373	3707	3842
70°	3148	3539	3626
75°	2804	3208	3302
80°	2290	2781	2920
85°	1516	2211	2370

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4099 cd/sqm

TEST NUMBER: P1585669

CATALOG NUMBER: 14CZSP-SB-37HE-L945

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.3	3.3
10°-20°	336.0	9.4
20°-30°	508.7	14.2
30°-40°	614.0	17.2
40°-50°	641.3	17.9
50°-60°	586.6	16.4
60°-70°	453.5	12.7
70°-80°	256.7	7.2
80°-90°	63.8	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°	962.0	26.9
0°-40°	1576.1	44.0
0°-60°	2804.0	78.4
0°-90°	3578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3578.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1238	1238	1238	1238	1238	
5°	1233	1242	1230	1231	1238	117
15°	1183	1194	1186	1192	1200	334
25°	1088	1102	1099	1109	1119	502
35°	958	972	978	994	1004	599
45°	801	816	829	850	860	617
55°	618	636	658	678	689	553
65°	423	441	465	479	482	418
75°	215	234	246	252	254	228
85°	39	45	57	60	61	51
90°	0	0	0	0	0	

TEST NUMBER: P1585669

CATALOG NUMBER: 14CZSP-SB-37HE-L945

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1238.5	1238.5	1238.5	1238.5	1238.5
2.5°	1237.0	1245.7	1232.3	1234.9	1237.5
5°	1232.8	1241.6	1229.7	1230.8	1238.0
7.5°	1225.1	1234.9	1222.5	1224.6	1233.3
10°	1214.3	1224.1	1213.2	1215.3	1224.1
12.5°	1200.4	1210.2	1200.9	1204.0	1213.8
15°	1183.3	1193.7	1185.9	1191.6	1199.8
17.5°	1162.7	1175.6	1167.4	1176.1	1184.4
20°	1141.1	1154.0	1147.8	1155.5	1165.3
22.5°	1116.3	1129.2	1124.6	1132.8	1143.7
25°	1088.5	1102.4	1098.8	1109.1	1119.4
27.5°	1059.7	1073.1	1072.0	1083.4	1094.2
30°	1027.2	1041.6	1042.1	1055.5	1065.8
32.5°	994.7	1007.6	1010.7	1025.6	1037.5
35°	958.1	971.5	977.7	994.2	1004.5
37.5°	921.0	936.0	942.7	960.7	971.5
40°	880.3	897.3	906.6	925.7	937.0
42.5°	841.6	857.1	869.5	888.5	898.9
45°	800.9	816.4	829.3	850.4	860.2
47.5°	757.1	774.1	788.0	808.7	819.5
50°	710.7	729.3	746.8	766.9	778.2
52.5°	664.9	682.9	703.0	722.6	733.9
55°	618.0	636.5	657.6	678.3	689.1
57.5°	570.5	589.1	612.3	630.8	642.2
60°	524.2	541.2	564.9	583.4	592.7
62.5°	471.6	491.2	515.4	534.0	539.1
65°	423.1	440.7	464.9	478.8	481.9
67.5°	371.6	389.1	413.3	421.1	425.7
70°	319.5	338.1	359.2	364.4	368.0
72.5°	267.0	286.0	302.5	307.7	310.8
75°	215.4	234.0	246.4	252.5	253.6
77.5°	165.4	182.5	193.8	201.0	201.0
80°	118.0	130.9	143.3	151.0	150.5
82.5°	75.2	85.0	97.9	103.6	107.2
85°	39.2	45.4	57.2	59.8	61.3
87.5°	12.4	16.0	20.6	17.0	16.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1585669

CATALOG NUMBER: 14CZSP-SB-37HE-L945

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	16.64	18.29	17.01	18.61	18.92	17.18	18.83	17.55	19.15	19.46
	3H	18.42	19.91	18.79	20.24	20.60	19.04	20.54	19.42	20.86	21.22
	4H	19.04	20.45	19.44	20.80	21.17	19.72	21.12	20.11	21.47	21.85
	6H	19.44	20.75	19.86	21.11	21.50	20.20	21.51	20.61	21.87	22.26
	8H	19.55	20.79	19.97	21.18	21.58	20.36	21.61	20.78	21.99	22.39
	12H	19.59	20.79	20.02	21.17	21.60	20.46	21.65	20.89	22.03	22.46
4H	2H	17.38	18.79	17.78	19.14	19.51	17.80	19.21	18.20	19.56	19.93
	3H	19.37	20.56	19.78	20.95	21.35	19.88	21.06	20.29	21.46	21.86
	4H	20.12	21.19	20.55	21.61	22.04	20.68	21.75	21.11	22.17	22.60
	6H	20.64	21.58	21.10	22.02	22.47	21.30	22.23	21.75	22.67	23.13
	8H	20.78	21.65	21.24	22.10	22.56	21.50	22.38	21.96	22.82	23.28
	12H	20.85	21.64	21.33	22.12	22.59	21.64	22.43	22.12	22.90	23.37
8H	4H	20.48	21.35	20.94	21.80	22.26	20.97	21.85	21.43	22.29	22.75
	6H	21.11	21.84	21.60	22.33	22.80	21.71	22.43	22.20	22.92	23.40
	8H	21.31	21.96	21.81	22.46	22.95	21.98	22.63	22.49	23.14	23.62
	12H	21.43	22.01	21.94	22.50	23.06	22.19	22.76	22.69	23.25	23.81
12H	4H	20.52	21.31	21.00	21.78	22.25	21.00	21.78	21.48	22.26	22.73
	6H	21.18	21.83	21.68	22.34	22.82	21.75	22.40	22.26	22.91	23.39
	8H	21.43	22.00	21.93	22.49	23.05	22.08	22.65	22.58	23.14	23.70

END OF REPORT