

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: P1585649

Luminaire Tested: 14CZSP-SB-35-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585649
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-35-L945
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

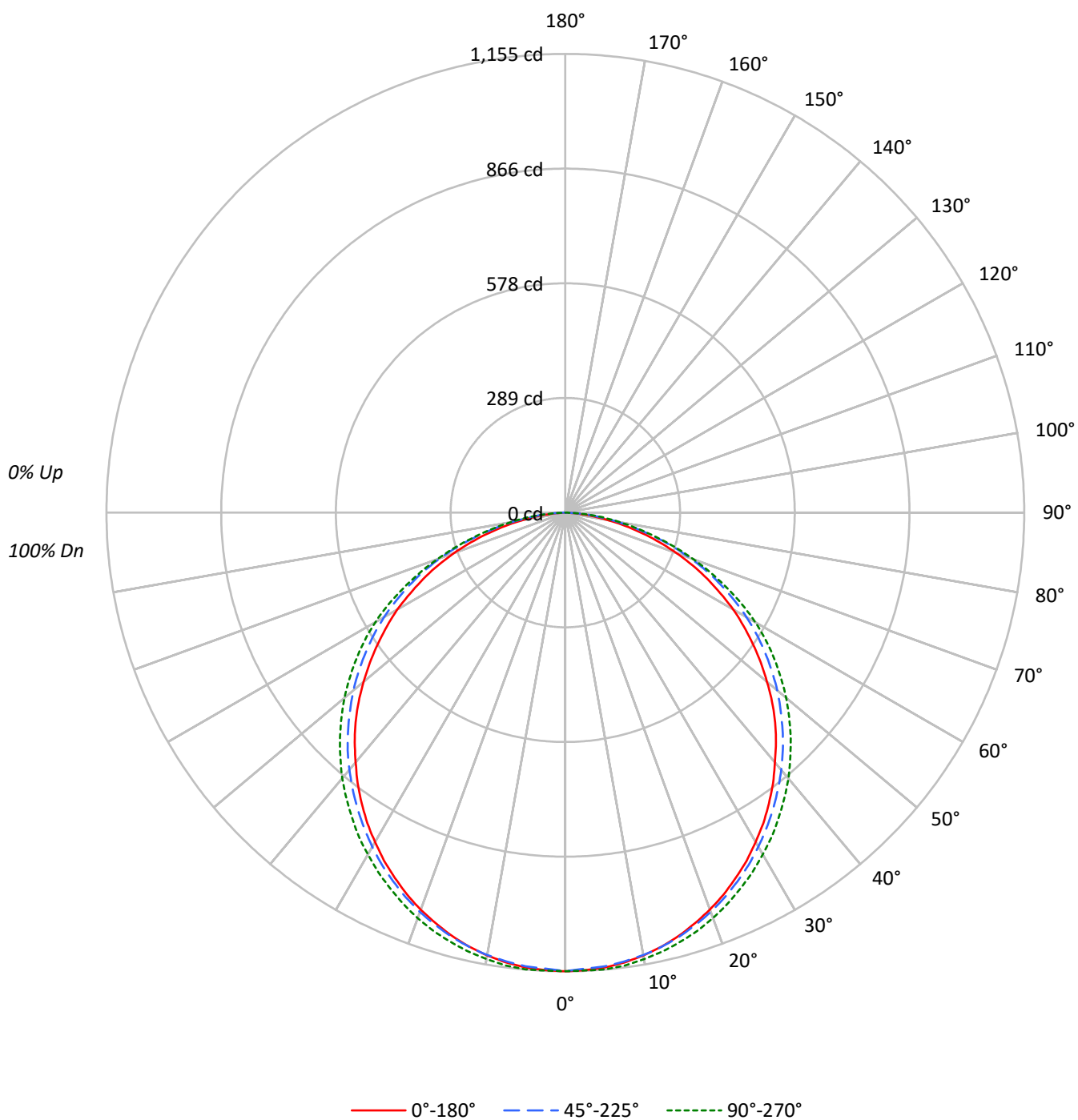
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3336.0 lumens
Efficiency: N/A
Efficacy: 143.8 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): 23.2
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°	3891	3891	3891
5°	3888	3878	3904
10°	3874	3870	3905
15°	3849	3857	3903
20°	3815	3838	3896
25°	3773	3809	3880
30°	3726	3780	3867
35°	3675	3750	3853
40°	3610	3718	3843
45°	3559	3685	3822
50°	3474	3650	3804
55°	3385	3602	3774
60°	3293	3550	3724
65°	3145	3456	3582
70°	2935	3299	3380
75°	2616	2990	3078
80°	2135	2592	2722
85°	1411	2061	2211

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3822 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.4	3.3
10°-20°	313.3	9.4
20°-30°	474.3	14.2
30°-40°	572.5	17.2
40°-50°	597.9	17.9
50°-60°	547.0	16.4
60°-70°	422.8	12.7
70°-80°	239.4	7.2
80°-90°	59.5	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°	897.0	26.9
0°-40°	1469.5	44.0
0°-60°	2614.3	78.4
0°-90°	3336.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3336.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1155	1155	1155	1155	1155	
5°	1149	1158	1147	1148	1154	109
15°	1103	1113	1106	1111	1119	311
25°	1015	1028	1024	1034	1044	468
35°	893	906	912	927	937	559
45°	747	761	773	793	802	575
55°	576	594	613	632	642	515
65°	394	411	433	446	449	389
75°	201	218	230	236	236	213
85°	36	42	53	56	57	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1154.7	1154.7	1154.7	1154.7	1154.7
2.5°	1153.3	1161.5	1149.0	1151.4	1153.8
5°	1149.4	1157.6	1146.6	1147.5	1154.3
7.5°	1142.2	1151.4	1139.8	1141.8	1149.9
10°	1132.1	1141.3	1131.2	1133.1	1141.3
12.5°	1119.2	1128.3	1119.7	1122.5	1131.7
15°	1103.3	1112.9	1105.7	1111.0	1118.7
17.5°	1084.1	1096.1	1088.4	1096.6	1104.3
20°	1063.9	1075.9	1070.2	1077.4	1086.5
22.5°	1040.8	1052.9	1048.5	1056.2	1066.3
25°	1014.9	1027.9	1024.5	1034.1	1043.7
27.5°	988.0	1000.5	999.5	1010.1	1020.2
30°	957.7	971.2	971.6	984.1	993.8
32.5°	927.4	939.5	942.3	956.3	967.3
35°	893.3	905.8	911.6	927.0	936.6
37.5°	858.7	872.7	878.9	895.7	905.8
40°	820.8	836.6	845.3	863.0	873.6
42.5°	784.7	799.1	810.7	828.4	838.1
45°	746.8	761.2	773.2	792.9	802.0
47.5°	705.9	721.8	734.7	754.0	764.1
50°	662.7	680.0	696.3	715.0	725.6
52.5°	619.9	636.7	655.5	673.7	684.3
55°	576.2	593.5	613.2	632.4	642.5
57.5°	532.0	549.3	570.9	588.2	598.7
60°	488.7	504.6	526.7	544.0	552.6
62.5°	439.7	458.0	480.5	497.8	502.6
65°	394.5	410.9	433.4	446.4	449.3
67.5°	346.5	362.8	385.4	392.6	396.9
70°	297.9	315.2	334.9	339.7	343.1
72.5°	248.9	266.7	282.1	286.9	289.8
75°	200.9	218.2	229.7	235.5	236.4
77.5°	154.3	170.1	180.7	187.4	187.4
80°	110.0	122.1	133.6	140.8	140.3
82.5°	70.2	79.3	91.3	96.6	100.0
85°	36.5	42.3	53.3	55.7	57.2
87.5°	11.5	14.9	19.2	15.9	15.4
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	16.40	18.05	16.77	18.37	18.68	16.94	18.59	17.31	18.91	19.22
	3H	18.17	19.67	18.55	19.99	20.35	18.80	20.30	19.18	20.62	20.98
	4H	18.80	20.21	19.20	20.55	20.93	19.47	20.88	19.87	21.23	21.60
	6H	19.20	20.51	19.61	20.87	21.26	19.96	21.26	20.37	21.63	22.02
	8H	19.30	20.55	19.73	20.94	21.34	20.12	21.36	20.54	21.75	22.15
	12H	19.35	20.55	19.78	20.93	21.36	20.21	21.41	20.64	21.79	22.22
4H	2H	17.14	18.55	17.54	18.90	19.27	17.56	18.97	17.96	19.32	19.69
	3H	19.13	20.31	19.54	20.71	21.11	19.64	20.82	20.05	21.22	21.62
	4H	19.88	20.95	20.31	21.36	21.80	20.44	21.51	20.87	21.92	22.36
	6H	20.40	21.34	20.85	21.78	22.23	21.06	21.99	21.51	22.43	22.88
	8H	20.54	21.41	21.00	21.85	22.32	21.26	22.13	21.72	22.58	23.04
	12H	20.61	21.40	21.09	21.87	22.34	21.40	22.18	21.88	22.66	23.13
8H	4H	20.24	21.11	20.70	21.55	22.02	20.73	21.61	21.19	22.05	22.51
	6H	20.87	21.60	21.36	22.08	22.56	21.46	22.19	21.96	22.68	23.15
	8H	21.06	21.72	21.57	22.22	22.71	21.74	22.39	22.24	22.89	23.38
	12H	21.19	21.76	21.69	22.25	22.81	21.94	22.52	22.45	23.01	23.57
12H	4H	20.28	21.06	20.76	21.54	22.01	20.75	21.54	21.23	22.02	22.49
	6H	20.93	21.59	21.44	22.09	22.58	21.50	22.16	22.01	22.66	23.15
	8H	21.18	21.76	21.69	22.25	22.81	21.83	22.41	22.34	22.90	23.46