

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: P1584248

Luminaire Tested: 14CZSP-35-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-35-L945-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

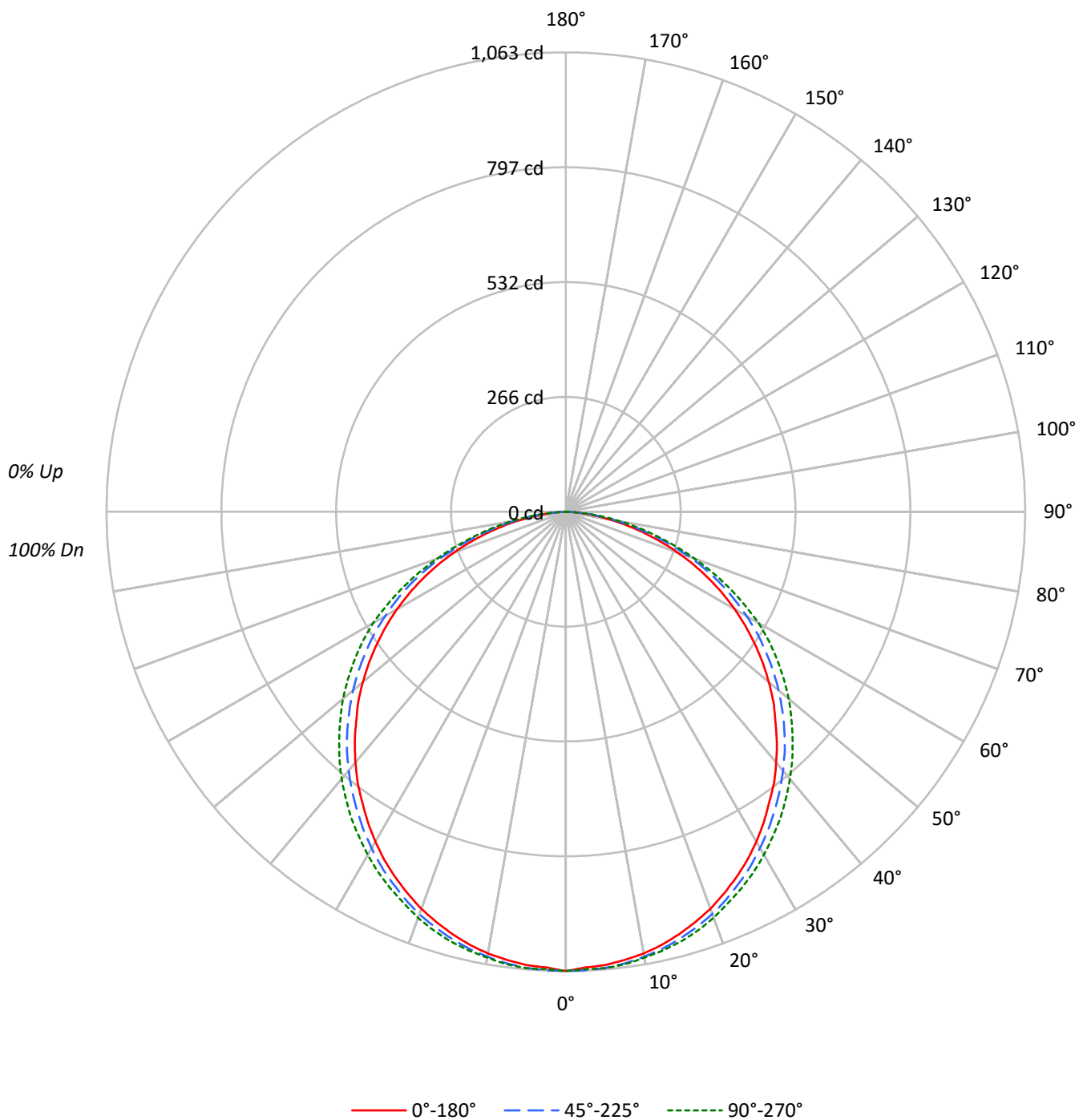
Lumens per Lamp: N/A
Luminaire Lumens: 3072.0 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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	80	75		82	77	73		79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	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	59	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°	3581	3581	3581
5°	3561	3583	3586
10°	3551	3577	3585
15°	3530	3567	3592
20°	3506	3552	3585
25°	3470	3525	3574
30°	3431	3497	3566
35°	3376	3467	3560
40°	3332	3439	3550
45°	3269	3409	3536
50°	3214	3368	3530
55°	3137	3320	3507
60°	3041	3254	3471
65°	2906	3165	3328
70°	2708	2989	3123
75°	2419	2696	2850
80°	1983	2272	2492
85°	1330	1662	1852

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3536 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	3.3
10°-20°	288.5	9.4
20°-30°	436.9	14.2
30°-40°	527.6	17.2
40°-50°	551.3	17.9
50°-60°	505.2	16.4
60°-70°	390.0	12.7
70°-80°	219.4	7.1
80°-90°	52.5	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°	826.0	26.9
0°-40°	1353.6	44.1
0°-60°	2410.2	78.5
0°-90°	3072.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3072.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1063	1063	1063	1063	1063	
5°	1053	1060	1059	1060	1060	100
15°	1012	1020	1022	1026	1030	286
25°	933	941	948	953	961	430
35°	821	831	843	854	866	514
45°	686	700	715	730	742	530
55°	534	548	565	583	597	477
65°	364	380	397	413	417	360
75°	186	203	207	216	219	197
85°	34	39	43	47	48	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1062.6	1062.6	1062.6	1062.6	1062.6
2.5°	1055.4	1063.5	1061.7	1064.4	1059.4
5°	1052.7	1060.3	1059.4	1060.3	1060.3
7.5°	1045.9	1054.0	1053.6	1054.9	1055.8
10°	1037.7	1045.4	1045.4	1046.8	1047.7
12.5°	1026.4	1034.6	1035.5	1037.7	1039.5
15°	1012.0	1020.1	1022.4	1026.4	1029.6
17.5°	995.7	1004.3	1007.9	1012.0	1016.0
20°	977.6	985.3	990.7	993.9	999.8
22.5°	956.3	964.9	970.8	974.0	980.3
25°	933.3	941.4	948.2	953.2	961.3
27.5°	908.9	917.0	925.1	931.0	940.5
30°	881.7	890.3	898.9	908.0	916.6
32.5°	852.3	862.3	871.8	881.7	891.2
35°	820.7	831.1	842.9	854.2	865.5
37.5°	791.3	800.8	813.0	825.2	836.5
40°	757.4	767.8	781.8	795.4	807.1
42.5°	723.0	734.3	749.7	762.8	775.5
45°	685.9	699.5	715.3	729.8	742.0
47.5°	651.6	663.3	679.2	695.0	707.7
50°	613.1	626.3	642.5	659.3	673.3
52.5°	574.3	587.8	604.6	621.3	635.8
55°	534.0	548.0	565.2	582.9	596.9
57.5°	492.9	507.8	525.4	543.1	557.1
60°	451.3	466.2	482.9	502.4	515.0
62.5°	407.9	424.6	440.4	458.5	466.2
65°	364.5	380.3	397.0	412.8	417.4
67.5°	320.1	336.4	351.3	361.7	367.6
70°	274.9	292.6	303.4	313.4	317.0
72.5°	230.2	247.8	254.1	263.6	267.2
75°	185.8	203.0	207.1	215.7	218.9
77.5°	142.9	158.7	160.1	170.0	172.7
80°	102.2	114.9	117.1	126.6	128.4
82.5°	65.6	74.6	77.8	85.9	88.6
85°	34.4	39.3	43.0	47.0	47.9
87.5°	11.3	14.0	11.8	12.2	11.3
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	16.14	17.79	16.51	18.11	18.42	16.68	18.33	17.05	18.65	18.96
	3H	17.92	19.41	18.30	19.74	20.10	18.54	20.03	18.92	20.36	20.72
	4H	18.55	19.95	18.94	20.30	20.68	19.21	20.62	19.61	20.96	21.34
	6H	18.95	20.26	19.37	20.62	21.01	19.69	20.99	20.10	21.35	21.75
	8H	19.06	20.30	19.48	20.69	21.09	19.83	21.08	20.26	21.47	21.87
	12H	19.11	20.30	19.54	20.68	21.11	19.92	21.11	20.34	21.49	21.92
4H	2H	16.87	18.28	17.27	18.62	19.00	17.29	18.70	17.69	19.05	19.42
	3H	18.86	20.04	19.27	20.44	20.84	19.36	20.54	19.77	20.94	21.34
	4H	19.62	20.69	20.05	21.10	21.54	20.16	21.23	20.59	21.64	22.08
	6H	20.15	21.08	20.60	21.52	21.98	20.76	21.69	21.21	22.14	22.59
	8H	20.29	21.16	20.75	21.60	22.07	20.95	21.83	21.41	22.27	22.73
	12H	20.37	21.15	20.85	21.63	22.10	21.07	21.86	21.55	22.33	22.80
8H	4H	19.96	20.83	20.42	21.27	21.74	20.43	21.31	20.89	21.75	22.21
	6H	20.60	21.32	21.09	21.81	22.29	21.15	21.87	21.64	22.36	22.84
	8H	20.80	21.45	21.31	21.95	22.44	21.40	22.05	21.91	22.56	23.05
	12H	20.93	21.50	21.43	21.99	22.55	21.59	22.16	22.09	22.65	23.21
12H	4H	19.99	20.78	20.47	21.25	21.72	20.46	21.24	20.94	21.72	22.19
	6H	20.65	21.31	21.16	21.81	22.30	21.18	21.84	21.69	22.34	22.83
	8H	20.90	21.48	21.41	21.97	22.53	21.49	22.07	22.00	22.56	23.12