

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: P1584538

Luminaire Tested: 14CZSP-A-35-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584538
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-A-35-L845-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3000 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

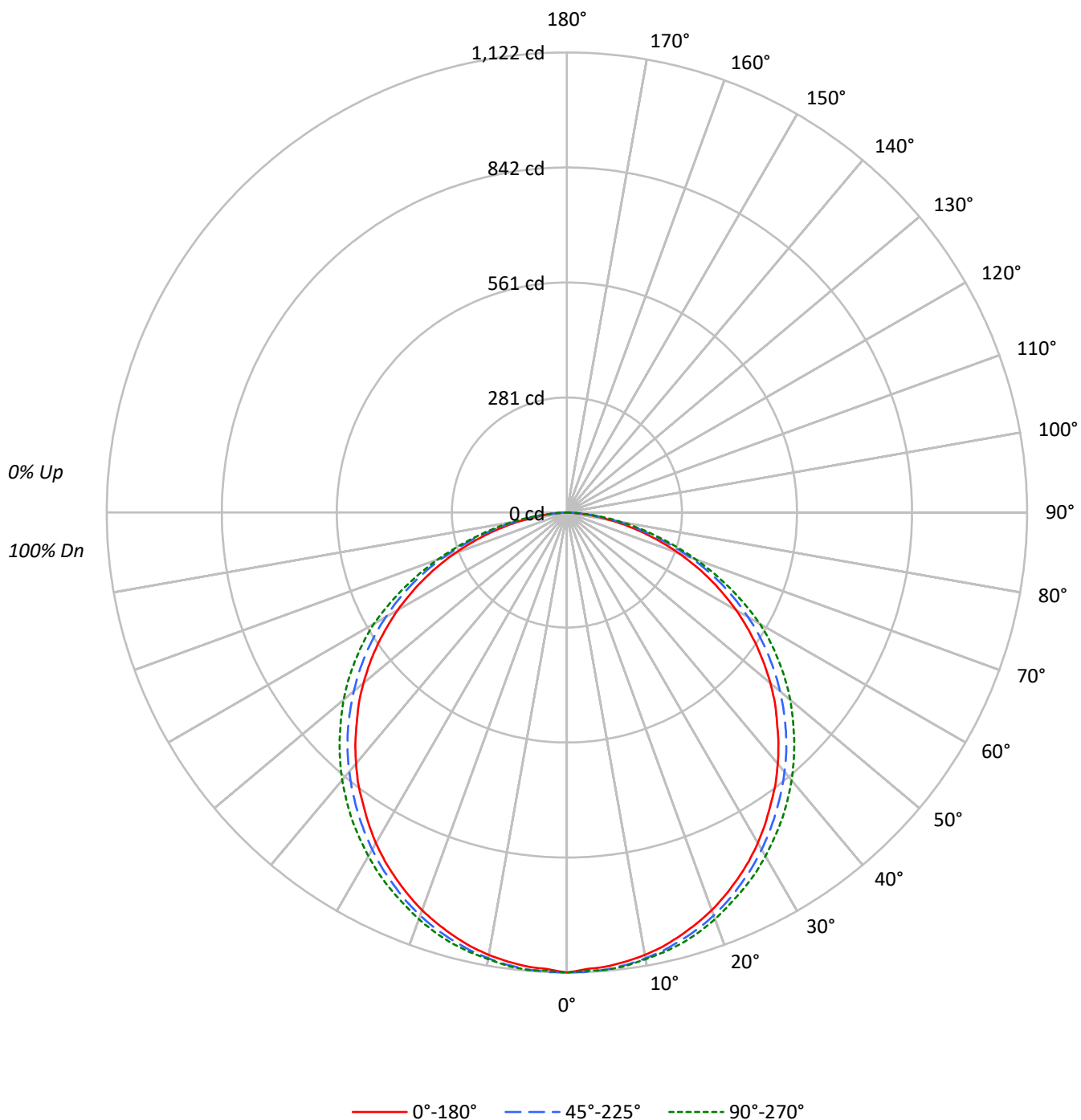
Lumens per Lamp: N/A
Luminaire Lumens: 3244.0 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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°	3781	3781	3781
5°	3760	3784	3787
10°	3749	3777	3785
15°	3728	3766	3793
20°	3702	3751	3786
25°	3664	3723	3774
30°	3623	3694	3766
35°	3565	3661	3759
40°	3518	3632	3749
45°	3452	3600	3734
50°	3394	3557	3727
55°	3313	3507	3703
60°	3211	3437	3665
65°	3069	3342	3514
70°	2860	3157	3297
75°	2554	2847	3009
80°	2094	2400	2631
85°	1403	1755	1956

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3734 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	3.3
10°-20°	304.7	9.4
20°-30°	461.3	14.2
30°-40°	557.1	17.2
40°-50°	582.2	17.9
50°-60°	533.5	16.4
60°-70°	411.8	12.7
70°-80°	231.7	7.1
80°-90°	55.4	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°	872.3	26.9
0°-40°	1429.4	44.1
0°-60°	2545.1	78.5
0°-90°	3244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3244.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1122	1122	1122	1122	1122	
5°	1112	1120	1119	1120	1120	106
15°	1069	1077	1080	1084	1087	302
25°	986	994	1001	1006	1015	454
35°	867	878	890	902	914	543
45°	724	739	755	771	784	560
55°	564	579	597	616	630	504
65°	385	402	419	436	441	380
75°	196	214	219	228	231	208
85°	36	42	45	50	51	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1122.1	1122.1	1122.1	1122.1	1122.1
2.5°	1114.5	1123.1	1121.1	1124.0	1118.8
5°	1111.6	1119.7	1118.8	1119.7	1119.7
7.5°	1104.4	1113.0	1112.6	1114.0	1114.9
10°	1095.8	1104.0	1104.0	1105.4	1106.3
12.5°	1083.9	1092.5	1093.5	1095.8	1097.8
15°	1068.6	1077.2	1079.6	1083.9	1087.2
17.5°	1051.4	1060.5	1064.3	1068.6	1072.9
20°	1032.3	1040.5	1046.2	1049.5	1055.7
22.5°	1009.9	1019.0	1025.2	1028.5	1035.2
25°	985.5	994.1	1001.3	1006.5	1015.1
27.5°	959.8	968.4	976.9	983.2	993.2
30°	931.1	940.2	949.3	958.8	967.9
32.5°	900.1	910.6	920.6	931.1	941.1
35°	866.6	877.6	890.0	902.0	913.9
37.5°	835.6	845.6	858.5	871.4	883.4
40°	799.8	810.8	825.6	839.9	852.3
42.5°	763.5	775.4	791.7	805.5	818.9
45°	724.4	738.7	755.4	770.7	783.6
47.5°	688.1	700.5	717.2	733.9	747.3
50°	647.5	661.3	678.5	696.2	711.0
52.5°	606.4	620.7	638.4	656.1	671.4
55°	563.9	578.7	596.9	615.5	630.3
57.5°	520.5	536.2	554.8	573.5	588.3
60°	476.5	492.3	510.0	530.5	543.9
62.5°	430.7	448.4	465.1	484.2	492.3
65°	384.9	401.6	419.2	435.9	440.7
67.5°	338.1	355.3	371.0	382.0	388.2
70°	290.3	308.9	320.4	330.9	334.7
72.5°	243.0	261.7	268.3	278.4	282.2
75°	196.2	214.4	218.7	227.8	231.1
77.5°	150.9	167.6	169.0	179.5	182.4
80°	107.9	121.3	123.7	133.7	135.6
82.5°	69.2	78.8	82.1	90.7	93.6
85°	36.3	41.5	45.4	49.7	50.6
87.5°	11.9	14.8	12.4	12.9	11.9
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	16.33	17.98	16.70	18.30	18.61	16.87	18.52	17.24	18.84	19.15
	3H	18.11	19.60	18.49	19.93	20.29	18.73	20.22	19.11	20.55	20.91
	4H	18.74	20.14	19.13	20.49	20.86	19.40	20.81	19.80	21.15	21.53
	6H	19.14	20.45	19.55	20.81	21.20	19.88	21.18	20.29	21.54	21.93
	8H	19.25	20.49	19.67	20.88	21.28	20.02	21.27	20.45	21.66	22.06
	12H	19.30	20.49	19.73	20.87	21.30	20.10	21.30	20.53	21.68	22.11
4H	2H	17.06	18.46	17.46	18.81	19.19	17.48	18.89	17.88	19.23	19.61
	3H	19.05	20.23	19.46	20.63	21.03	19.55	20.73	19.96	21.13	21.53
	4H	19.81	20.88	20.24	21.29	21.73	20.35	21.42	20.78	21.83	22.26
	6H	20.34	21.27	20.79	21.71	22.17	20.95	21.88	21.40	22.32	22.78
	8H	20.48	21.35	20.94	21.79	22.26	21.14	22.02	21.60	22.46	22.92
	12H	20.56	21.34	21.03	21.82	22.28	21.26	22.05	21.74	22.52	22.99
8H	4H	20.15	21.02	20.61	21.46	21.93	20.62	21.50	21.08	21.94	22.40
	6H	20.79	21.51	21.28	22.00	22.47	21.34	22.06	21.83	22.55	23.02
	8H	20.99	21.64	21.50	22.14	22.63	21.59	22.24	22.10	22.75	23.24
	12H	21.12	21.69	21.62	22.18	22.74	21.78	22.35	22.28	22.84	23.40
12H	4H	20.18	20.97	20.66	21.44	21.91	20.65	21.43	21.13	21.91	22.38
	6H	20.84	21.49	21.35	22.00	22.49	21.37	22.03	21.88	22.53	23.02
	8H	21.09	21.67	21.60	22.16	22.72	21.68	22.26	22.19	22.75	23.31