

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: P1584249

Luminaire Tested: 14CZSP-35-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584249
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2603-724-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-35-L945
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

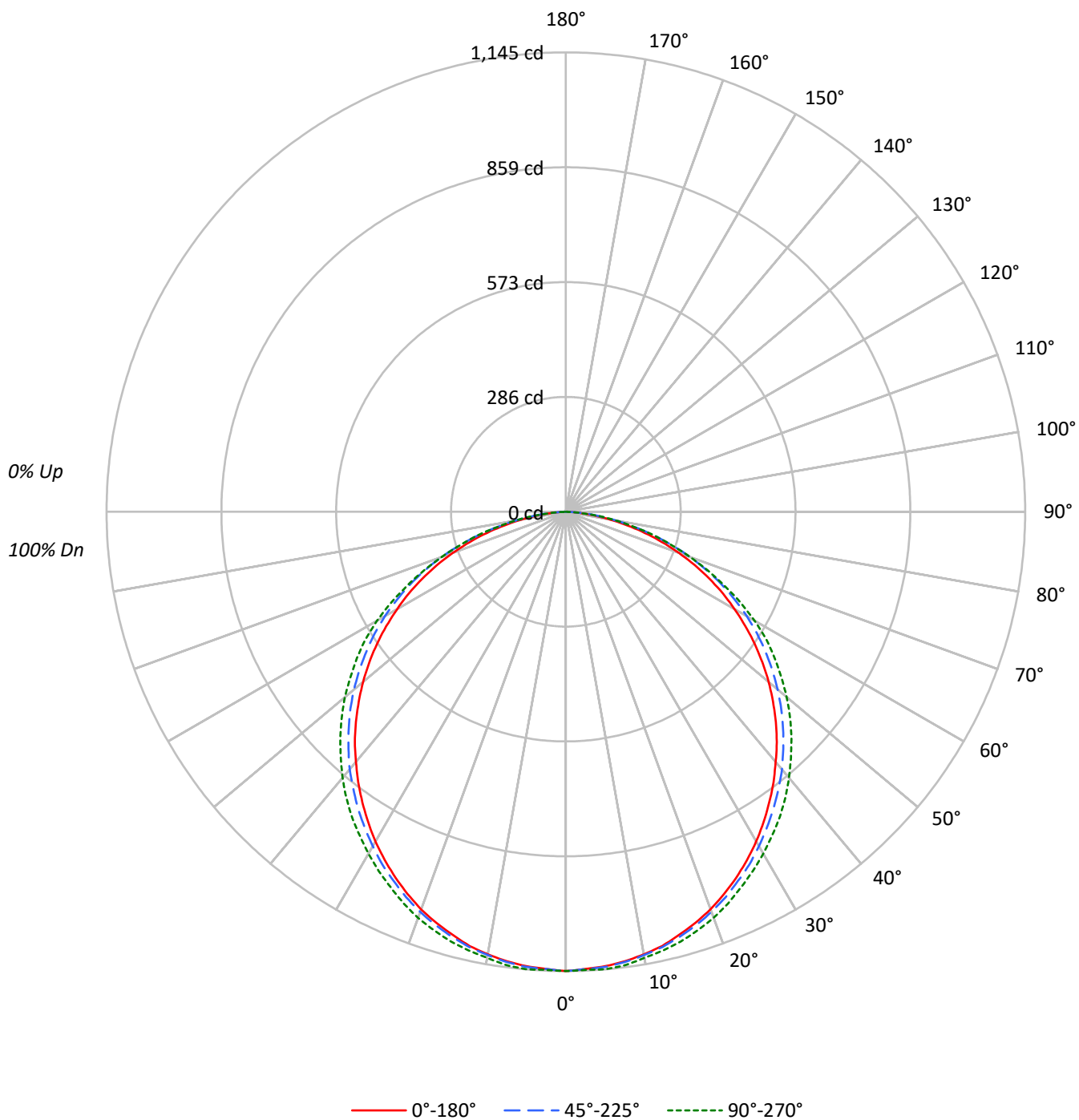
Lumens per Lamp: N/A
Luminaire Lumens: 3303.0 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	53		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	29		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°	3857	3857	3857
5°	3846	3852	3872
10°	3833	3840	3863
15°	3809	3826	3867
20°	3782	3806	3862
25°	3739	3776	3841
30°	3692	3745	3829
35°	3637	3714	3823
40°	3579	3687	3807
45°	3528	3649	3789
50°	3460	3614	3768
55°	3377	3567	3733
60°	3273	3510	3663
65°	3146	3412	3482
70°	2952	3241	3241
75°	2652	2945	2958
80°	2185	2490	2490
85°	1516	1817	1589

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3789 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	3.3
10°-20°	310.5	9.4
20°-30°	470.0	14.2
30°-40°	567.4	17.2
40°-50°	592.8	17.9
50°-60°	543.0	16.4
60°-70°	418.7	12.7
70°-80°	236.2	7.2
80°-90°	55.9	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°	889.0	26.9
0°-40°	1456.4	44.1
0°-60°	2592.2	78.5
0°-90°	3303.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3303.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1145	1145	1145	1145	1145	
5°	1137	1145	1139	1141	1145	108
15°	1092	1099	1097	1106	1108	308
25°	1006	1014	1016	1029	1033	463
35°	884	896	903	922	929	553
45°	740	753	766	788	795	571
55°	575	590	607	630	636	514
65°	395	407	428	443	437	390
75°	204	219	226	232	227	216
85°	39	44	47	50	41	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1144.7	1144.7	1144.7	1144.7	1144.7
2.5°	1140.8	1148.6	1140.8	1144.7	1142.8
5°	1136.9	1144.7	1138.8	1140.8	1144.7
7.5°	1130.0	1137.9	1132.0	1134.9	1139.8
10°	1120.2	1128.1	1122.2	1127.1	1129.0
12.5°	1108.5	1115.3	1111.4	1117.3	1120.2
15°	1091.8	1098.7	1096.7	1105.5	1108.5
17.5°	1074.2	1082.0	1080.1	1090.9	1093.8
20°	1054.6	1061.5	1061.5	1071.3	1077.1
22.5°	1031.1	1039.0	1039.9	1050.7	1056.6
25°	1005.7	1014.5	1015.5	1029.2	1033.1
27.5°	978.2	987.1	991.0	1005.7	1009.6
30°	948.9	957.7	962.6	979.2	984.1
32.5°	917.5	928.3	933.2	951.8	956.7
35°	884.2	896.0	902.8	922.4	929.3
37.5°	850.0	861.7	870.5	891.1	898.9
40°	813.7	826.5	838.2	858.8	865.6
42.5°	778.5	791.2	802.0	823.5	830.4
45°	740.3	753.0	765.8	788.3	795.1
47.5°	700.1	713.9	728.5	749.1	757.9
50°	660.0	673.7	689.4	710.9	718.8
52.5°	617.9	632.6	648.2	670.8	676.6
55°	574.8	589.5	607.1	629.6	635.5
57.5°	530.7	546.4	565.0	586.6	592.4
60°	485.7	501.4	520.9	541.5	543.5
62.5°	441.6	455.3	474.9	494.5	491.6
65°	394.6	407.4	427.9	442.6	436.7
67.5°	347.6	361.3	379.9	390.7	382.9
70°	299.6	314.3	329.0	336.9	329.0
72.5°	251.7	267.3	278.1	283.0	276.1
75°	203.7	219.3	226.2	232.1	227.2
77.5°	157.7	172.3	175.3	182.1	175.3
80°	112.6	126.3	128.3	135.1	128.3
82.5°	72.5	81.3	85.2	91.1	84.2
85°	39.2	44.1	47.0	49.9	41.1
87.5°	13.7	15.7	13.7	11.8	4.9
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	16.40	18.05	16.77	18.37	18.68	16.95	18.60	17.31	18.91	19.22
	3H	18.19	19.68	18.57	20.01	20.37	18.75	20.25	19.13	20.57	20.93
	4H	18.83	20.24	19.23	20.58	20.96	19.40	20.81	19.80	21.15	21.53
	6H	19.25	20.56	19.66	20.92	21.31	19.84	21.14	20.25	21.51	21.90
	8H	19.36	20.61	19.79	21.00	21.40	19.96	21.21	20.39	21.60	21.99
	12H	19.42	20.61	19.85	20.99	21.42	20.02	21.21	20.45	21.59	22.02
4H	2H	17.13	18.54	17.53	18.88	19.26	17.55	18.96	17.95	19.31	19.68
	3H	19.14	20.32	19.54	20.71	21.11	19.59	20.77	20.00	21.17	21.57
	4H	19.90	20.97	20.33	21.38	21.82	20.37	21.44	20.80	21.85	22.29
	6H	20.45	21.38	20.90	21.82	22.28	20.94	21.87	21.39	22.31	22.77
	8H	20.59	21.47	21.05	21.91	22.37	21.10	21.98	21.56	22.42	22.88
	12H	20.68	21.46	21.16	21.94	22.41	21.20	21.98	21.68	22.46	22.92
8H	4H	20.25	21.12	20.71	21.56	22.03	20.66	21.53	21.12	21.97	22.44
	6H	20.91	21.63	21.40	22.12	22.59	21.34	22.07	21.83	22.55	23.03
	8H	21.11	21.76	21.62	22.27	22.75	21.57	22.22	22.08	22.73	23.22
	12H	21.25	21.82	21.76	22.31	22.87	21.72	22.30	22.23	22.79	23.35
12H	4H	20.28	21.07	20.76	21.54	22.01	20.69	21.47	21.16	21.94	22.41
	6H	20.96	21.61	21.47	22.12	22.60	21.38	22.03	21.89	22.54	23.02
	8H	21.22	21.79	21.73	22.28	22.84	21.67	22.24	22.17	22.73	23.29