

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: P1586609

Luminaire Tested: 22CZSP-A-35-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-772-10)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-A-35-L945
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

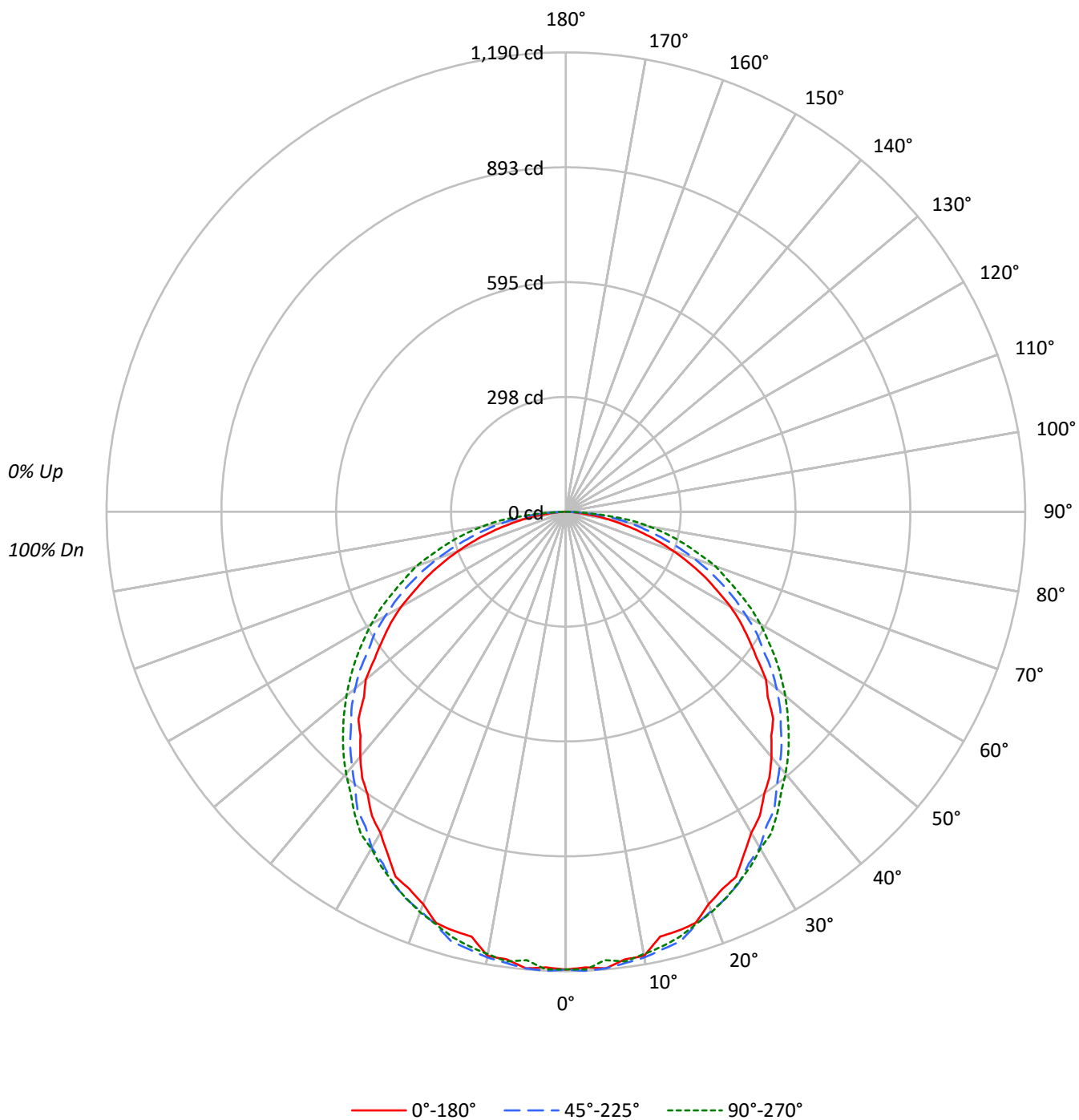
Lumens per Lamp: N/A
Luminaire Lumens: 3462.0 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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

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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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	31	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3713	3713	3713
5°	3732	3732	3664
10°	3714	3728	3700
15°	3643	3731	3696
20°	3604	3668	3678
25°	3604	3666	3661
30°	3473	3633	3644
35°	3421	3599	3649
40°	3386	3522	3618
45°	3364	3485	3616
50°	3298	3471	3615
55°	3164	3406	3623
60°	3089	3380	3644
65°	2932	3331	3654
70°	2704	3225	3778
75°	2403	3081	3815
80°	1996	3022	3955
85°	1222	2705	3341

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4093 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.4	3.2
10°-20°	321.3	9.3
20°-30°	484.6	14.0
30°-40°	582.1	16.8
40°-50°	607.6	17.6
50°-60°	559.5	16.2
60°-70°	441.8	12.8
70°-80°	272.1	7.9
80°-90°	80.6	2.3
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°	918.4	26.5
0°-40°	1500.4	43.3
0°-60°	2667.5	77.1
0°-90°	3462.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3462.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1186	1186	1186	1186	1186	
5°	1187	1175	1187	1189	1166	112
15°	1124	1139	1151	1146	1140	318
25°	1043	1051	1061	1056	1060	475
35°	895	911	941	946	955	562
45°	760	766	787	804	817	581
55°	580	595	624	652	664	520
65°	396	410	450	482	493	390
75°	199	218	255	295	315	211
85°	34	49	75	89	93	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1185.7	1185.7	1185.7	1185.7	1185.7
2.5°	1181.3	1193.9	1190.2	1192.4	1186.5
5°	1187.2	1175.4	1187.2	1188.7	1165.8
7.5°	1169.5	1171.0	1179.1	1181.3	1174.7
10°	1168.0	1172.4	1172.4	1165.1	1163.6
12.5°	1127.4	1149.6	1160.6	1165.8	1153.2
15°	1123.7	1139.2	1151.0	1145.9	1140.0
17.5°	1117.1	1112.6	1120.8	1126.7	1120.0
20°	1081.6	1089.0	1100.8	1102.3	1103.8
22.5°	1058.0	1060.2	1083.8	1086.1	1083.1
25°	1043.2	1050.6	1061.0	1056.5	1059.5
27.5°	999.7	1017.4	1027.0	1035.9	1035.9
30°	960.5	981.2	1004.8	1007.8	1007.8
32.5°	934.7	948.7	966.5	972.4	988.6
35°	894.8	911.1	941.4	945.8	954.6
37.5°	866.8	883.0	897.1	912.6	916.2
40°	828.4	845.4	861.6	879.3	885.2
42.5°	787.8	805.5	826.9	845.4	852.8
45°	759.7	765.6	787.0	804.0	816.6
47.5°	708.8	725.8	753.1	774.5	779.7
50°	677.0	683.7	712.5	741.3	742.0
52.5°	623.9	643.8	671.9	699.2	702.9
55°	579.6	595.1	623.9	651.9	663.7
57.5°	538.2	550.0	587.0	615.0	621.7
60°	493.2	505.7	539.7	572.2	581.8
62.5°	440.8	458.5	495.4	526.4	539.7
65°	395.7	409.8	449.6	482.1	493.2
67.5°	344.8	364.0	401.6	437.8	449.6
70°	295.3	314.5	352.2	389.8	412.7
72.5°	246.6	266.5	304.2	347.7	360.3
75°	198.6	217.8	254.7	295.3	315.3
77.5°	151.4	172.0	209.7	250.3	269.5
80°	110.7	127.0	167.6	203.0	219.3
82.5°	68.7	85.6	123.3	156.5	170.6
85°	34.0	48.7	75.3	89.3	93.0
87.5°	10.3	15.5	23.6	31.0	35.4
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	16.02	17.69	16.39	18.00	18.31	16.85	18.51	17.21	18.82	19.14
	3H	17.78	19.29	18.15	19.61	19.97	18.99	20.50	19.37	20.83	21.19
	4H	18.39	19.81	18.79	20.16	20.54	19.91	21.33	20.31	21.68	22.05
	6H	18.79	20.12	19.20	20.48	20.87	20.71	22.03	21.12	22.39	22.78
	8H	18.90	20.16	19.32	20.55	20.95	21.03	22.29	21.46	22.68	23.08
	12H	18.94	20.15	19.37	20.53	20.96	21.24	22.45	21.67	22.83	23.26
4H	2H	16.81	18.24	17.21	18.58	18.96	17.45	18.88	17.85	19.22	19.60
	3H	18.79	19.99	19.20	20.38	20.78	19.83	21.03	20.24	21.43	21.83
	4H	19.52	20.61	19.95	21.02	21.45	20.90	21.99	21.33	22.40	22.83
	6H	20.04	20.99	20.49	21.43	21.89	21.87	22.82	22.32	23.26	23.71
	8H	20.18	21.07	20.64	21.51	21.98	22.26	23.16	22.72	23.60	24.06
	12H	20.26	21.06	20.74	21.53	22.00	22.53	23.34	23.01	23.81	24.28
8H	4H	19.99	20.88	20.44	21.32	21.78	21.19	22.08	21.65	22.52	22.99
	6H	20.64	21.39	21.13	21.87	22.35	22.31	23.06	22.81	23.54	24.02
	8H	20.85	21.52	21.35	22.02	22.50	22.82	23.49	23.33	23.99	24.48
	12H	20.98	21.57	21.48	22.06	22.62	23.19	23.78	23.70	24.27	24.83
12H	4H	20.08	20.88	20.56	21.36	21.82	21.21	22.02	21.69	22.49	22.96
	6H	20.78	21.45	21.29	21.95	22.44	22.36	23.03	22.87	23.54	24.02
	8H	21.05	21.65	21.56	22.13	22.69	22.94	23.53	23.44	24.02	24.58