

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: P1586593

Luminaire Tested: 22CZSP-A-35-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586593
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-L830
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

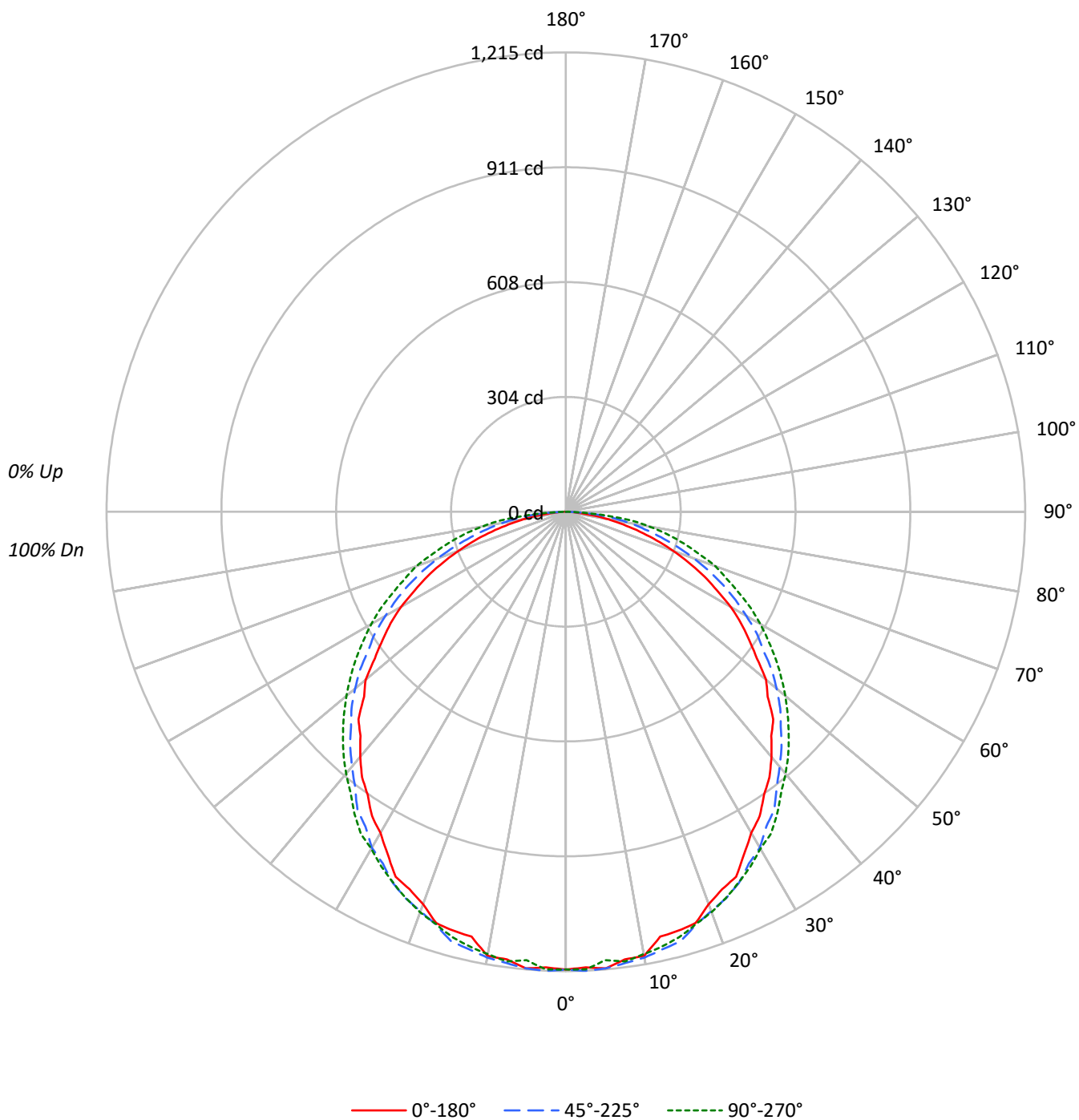
Lumens per Lamp: N/A
Luminaire Lumens: 3535.0 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	3791	3791	3791
5°	3810	3810	3742
10°	3792	3807	3778
15°	3720	3810	3773
20°	3680	3745	3756
25°	3680	3743	3738
30°	3546	3710	3721
35°	3493	3674	3726
40°	3458	3596	3695
45°	3435	3559	3692
50°	3368	3544	3691
55°	3231	3478	3700
60°	3154	3451	3721
65°	2994	3402	3731
70°	2761	3292	3858
75°	2454	3147	3895
80°	2039	3085	4037
85°	1247	2763	3413

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4177 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	3.2
10°-20°	328.1	9.3
20°-30°	494.8	14.0
30°-40°	594.4	16.8
40°-50°	620.4	17.6
50°-60°	571.2	16.2
60°-70°	451.1	12.8
70°-80°	277.8	7.9
80°-90°	82.4	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°	937.7	26.5
0°-40°	1532.1	43.3
0°-60°	2723.7	77.0
0°-90°	3535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3535.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1211	1211	1211	1211	1211	
5°	1212	1200	1212	1214	1190	115
15°	1147	1163	1175	1170	1164	324
25°	1065	1073	1083	1079	1082	485
35°	914	930	961	966	975	574
45°	776	782	804	821	834	593
55°	592	608	637	666	678	531
65°	404	418	459	492	504	398
75°	203	222	260	302	322	215
85°	35	50	77	91	95	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1210.7	1210.7	1210.7	1210.7	1210.7
2.5°	1206.2	1219.0	1215.3	1217.5	1211.5
5°	1212.2	1200.2	1212.2	1213.8	1190.4
7.5°	1194.2	1195.7	1204.0	1206.2	1199.4
10°	1192.6	1197.2	1197.2	1189.6	1188.1
12.5°	1151.2	1173.8	1185.1	1190.4	1177.6
15°	1147.4	1163.2	1175.3	1170.0	1164.0
17.5°	1140.6	1136.1	1144.4	1150.4	1143.6
20°	1104.4	1112.0	1124.0	1125.5	1127.1
22.5°	1080.3	1082.6	1106.7	1109.0	1105.9
25°	1065.2	1072.8	1083.3	1078.8	1081.8
27.5°	1020.8	1038.9	1048.7	1057.7	1057.7
30°	980.8	1001.9	1026.0	1029.1	1029.1
32.5°	954.4	968.7	986.8	992.9	1009.4
35°	913.7	930.3	961.2	965.7	974.8
37.5°	885.1	901.6	916.0	931.8	935.6
40°	845.9	863.2	879.8	897.9	903.9
42.5°	804.4	822.5	844.3	863.2	870.7
45°	775.7	781.8	803.6	821.0	833.8
47.5°	723.7	741.1	769.0	790.8	796.1
50°	691.3	698.1	727.5	756.9	757.7
52.5°	637.0	657.4	686.0	713.9	717.7
55°	591.8	607.6	637.0	665.7	677.7
57.5°	549.6	561.6	599.3	628.0	634.8
60°	503.6	516.4	551.1	584.3	594.1
62.5°	450.1	468.2	505.9	537.5	551.1
65°	404.1	418.4	459.1	492.3	503.6
67.5°	352.1	371.7	410.1	447.1	459.1
70°	301.6	321.2	359.6	398.1	421.4
72.5°	251.8	272.2	310.6	355.1	367.9
75°	202.8	222.4	260.1	301.6	321.9
77.5°	154.5	175.7	214.1	255.6	275.2
80°	113.1	129.7	171.1	207.3	223.9
82.5°	70.1	87.5	125.9	159.8	174.1
85°	34.7	49.8	76.9	91.2	95.0
87.5°	10.6	15.8	24.1	31.7	36.2
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	16.10	17.76	16.46	18.07	18.39	16.92	18.58	17.28	18.90	19.21
	3H	17.85	19.36	18.23	19.68	20.04	19.07	20.58	19.44	20.90	21.26
	4H	18.46	19.89	18.86	20.23	20.61	19.98	21.40	20.38	21.75	22.13
	6H	18.87	20.19	19.28	20.55	20.94	20.78	22.10	21.19	22.47	22.86
	8H	18.97	20.23	19.39	20.62	21.02	21.10	22.37	21.53	22.76	23.15
	12H	19.02	20.23	19.44	20.61	21.04	21.31	22.52	21.74	22.90	23.33
4H	2H	16.89	18.31	17.29	18.66	19.03	17.53	18.95	17.92	19.30	19.67
	3H	18.86	20.06	19.27	20.46	20.86	19.91	21.10	20.31	21.50	21.90
	4H	19.59	20.68	20.02	21.09	21.53	20.97	22.06	21.40	22.47	22.91
	6H	20.11	21.07	20.57	21.51	21.96	21.94	22.89	22.39	23.33	23.79
	8H	20.25	21.15	20.71	21.59	22.05	22.34	23.23	22.80	23.67	24.13
	12H	20.33	21.13	20.81	21.61	22.08	22.60	23.41	23.08	23.88	24.35
8H	4H	20.06	20.95	20.52	21.39	21.86	21.26	22.15	21.72	22.60	23.06
	6H	20.71	21.46	21.21	21.95	22.42	22.39	23.13	22.88	23.62	24.09
	8H	20.92	21.59	21.43	22.09	22.58	22.89	23.56	23.40	24.07	24.55
	12H	21.05	21.64	21.55	22.13	22.69	23.26	23.85	23.77	24.34	24.90
12H	4H	20.15	20.95	20.63	21.43	21.90	21.29	22.09	21.77	22.56	23.03
	6H	20.85	21.52	21.36	22.03	22.51	22.44	23.11	22.94	23.61	24.09
	8H	21.13	21.72	21.63	22.21	22.77	23.01	23.60	23.51	24.09	24.65

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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