

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: P1586559

Luminaire Tested: 22CZSP-A-31-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586559
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-31-L845
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 3000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

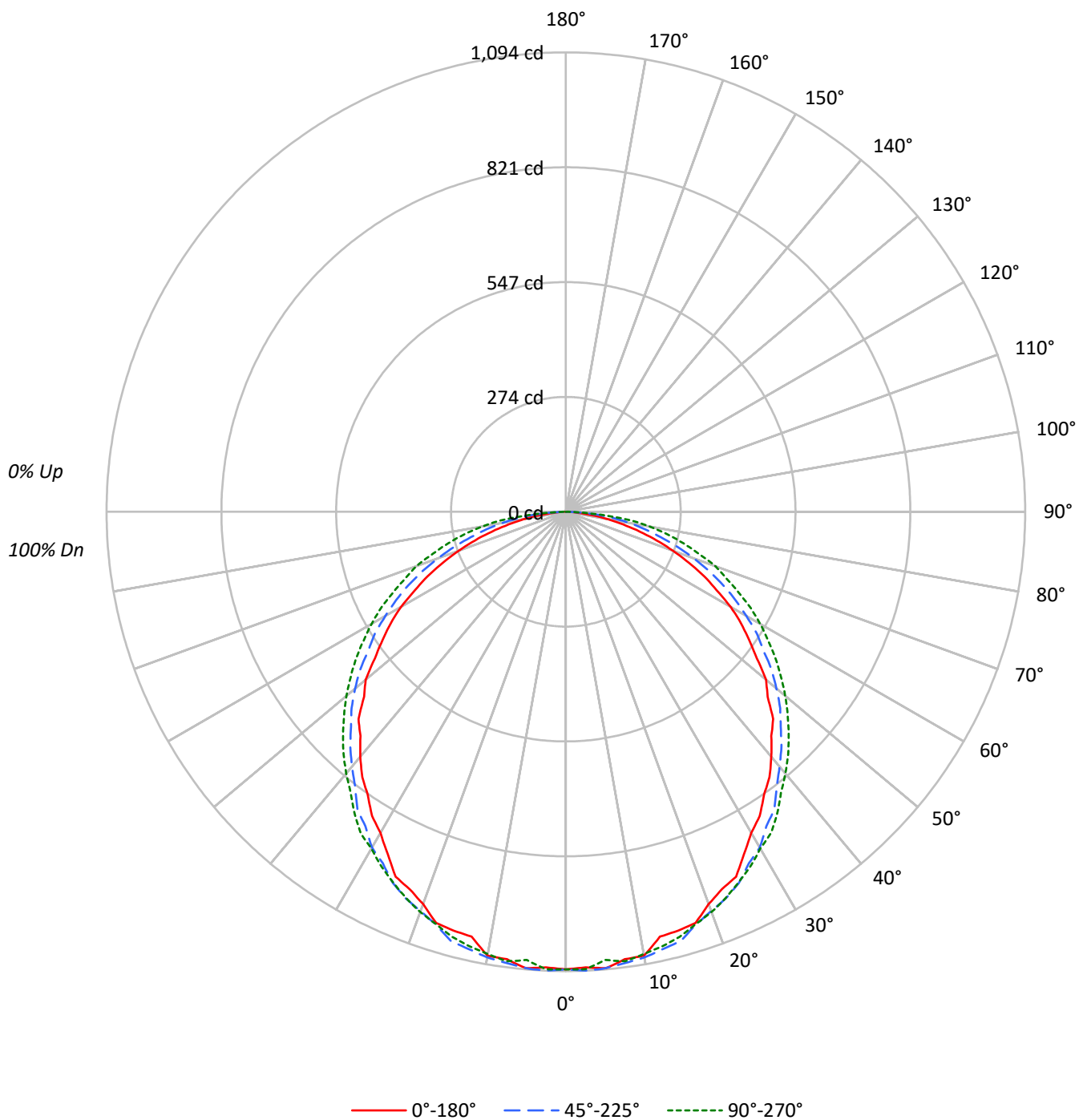
Lumens per Lamp: N/A
Luminaire Lumens: 3182.0 lumens
Efficiency: N/A
Efficacy: 151.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 21
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°	3413	3413	3413
5°	3430	3430	3368
10°	3413	3426	3401
15°	3348	3429	3397
20°	3313	3372	3381
25°	3313	3369	3365
30°	3192	3340	3349
35°	3144	3307	3354
40°	3112	3237	3326
45°	3092	3203	3323
50°	3032	3190	3322
55°	2908	3130	3331
60°	2839	3107	3349
65°	2695	3062	3359
70°	2485	2964	3473
75°	2208	2832	3506
80°	1836	2777	3634
85°	1121	2486	3072

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3762 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.3	3.2
10°-20°	295.3	9.3
20°-30°	445.4	14.0
30°-40°	535.0	16.8
40°-50°	558.5	17.6
50°-60°	514.2	16.2
60°-70°	406.1	12.8
70°-80°	250.0	7.9
80°-90°	74.1	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°	844.1	26.5
0°-40°	1379.1	43.3
0°-60°	2451.8	77.1
0°-90°	3182.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3182.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1091	1080	1091	1092	1072	103
15°	1033	1047	1058	1053	1048	292
25°	959	966	975	971	974	437
35°	822	837	865	869	877	517
45°	698	704	723	739	750	534
55°	533	547	573	599	610	478
65°	364	377	413	443	453	358
75°	182	200	234	271	290	194
85°	31	45	69	82	86	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1089.8	1089.8	1089.8	1089.8	1089.8
2.5°	1085.8	1097.3	1093.9	1095.9	1090.5
5°	1091.2	1080.3	1091.2	1092.5	1071.5
7.5°	1074.9	1076.3	1083.7	1085.8	1079.7
10°	1073.5	1077.6	1077.6	1070.8	1069.5
12.5°	1036.2	1056.6	1066.8	1071.5	1060.0
15°	1032.8	1047.1	1057.9	1053.2	1047.8
17.5°	1026.7	1022.7	1030.1	1035.5	1029.4
20°	994.2	1000.9	1011.8	1013.2	1014.5
22.5°	972.4	974.5	996.2	998.2	995.5
25°	958.9	965.7	975.2	971.1	973.8
27.5°	918.8	935.1	943.9	952.1	952.1
30°	882.9	901.9	923.6	926.3	926.3
32.5°	859.1	872.0	888.3	893.7	908.6
35°	822.5	837.4	865.2	869.3	877.4
37.5°	796.7	811.6	824.5	838.8	842.1
40°	761.4	777.0	791.9	808.2	813.6
42.5°	724.1	740.4	760.0	777.0	783.8
45°	698.3	703.7	723.4	739.0	750.5
47.5°	651.5	667.1	692.2	711.9	716.6
50°	622.3	628.4	654.9	681.3	682.0
52.5°	573.4	591.7	617.5	642.6	646.0
55°	532.7	547.0	573.4	599.2	610.1
57.5°	494.7	505.6	539.5	565.3	571.4
60°	453.3	464.8	496.1	525.9	534.7
62.5°	405.1	421.4	455.3	483.8	496.1
65°	363.7	376.6	413.3	443.1	453.3
67.5°	316.9	334.6	369.2	402.4	413.3
70°	271.4	289.1	323.7	358.3	379.3
72.5°	226.7	245.0	279.6	319.6	331.2
75°	182.5	200.2	234.1	271.4	289.8
77.5°	139.1	158.1	192.7	230.0	247.7
80°	101.8	116.7	154.0	186.6	201.5
82.5°	63.1	78.7	113.3	143.9	156.8
85°	31.2	44.8	69.2	82.1	85.5
87.5°	9.5	14.3	21.7	28.5	32.6
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	15.73	17.39	16.10	17.71	18.02	16.55	18.22	16.92	18.53	18.85
	3H	17.49	18.99	17.86	19.32	19.68	18.70	20.21	19.08	20.54	20.90
	4H	18.10	19.52	18.50	19.87	20.24	19.62	21.04	20.01	21.39	21.76
	6H	18.50	19.82	18.91	20.19	20.58	20.42	21.74	20.83	22.10	22.49
	8H	18.60	19.87	19.03	20.26	20.65	20.74	22.00	21.16	22.39	22.79
	12H	18.65	19.86	19.08	20.24	20.67	20.94	22.15	21.37	22.54	22.96
4H	2H	16.52	17.95	16.92	18.29	18.67	17.16	18.58	17.56	18.93	19.30
	3H	18.50	19.70	18.91	20.09	20.49	19.54	20.74	19.95	21.13	21.53
	4H	19.23	20.32	19.66	20.73	21.16	20.61	21.69	21.04	22.11	22.54
	6H	19.75	20.70	20.20	21.14	21.59	21.57	22.53	22.03	22.97	23.42
	8H	19.89	20.78	20.35	21.22	21.69	21.97	22.86	22.43	23.30	23.77
	12H	19.96	20.77	20.44	21.24	21.71	22.24	23.04	22.72	23.52	23.98
8H	4H	19.69	20.59	20.15	21.03	21.49	20.90	21.79	21.35	22.23	22.69
	6H	20.35	21.09	20.84	21.58	22.05	22.02	22.77	22.51	23.25	23.73
	8H	20.55	21.22	21.06	21.73	22.21	22.53	23.20	23.04	23.70	24.19
	12H	20.68	21.27	21.19	21.76	22.32	22.90	23.49	23.40	23.98	24.54
12H	4H	19.79	20.59	20.26	21.06	21.53	20.92	21.72	21.40	22.20	22.67
	6H	20.49	21.16	20.99	21.66	22.15	22.07	22.74	22.58	23.24	23.73
	8H	20.76	21.35	21.27	21.84	22.40	22.64	23.24	23.15	23.72	24.28