

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: P1586561

Luminaire Tested: 22CZSP-A-31-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586561
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-L850
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 3000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

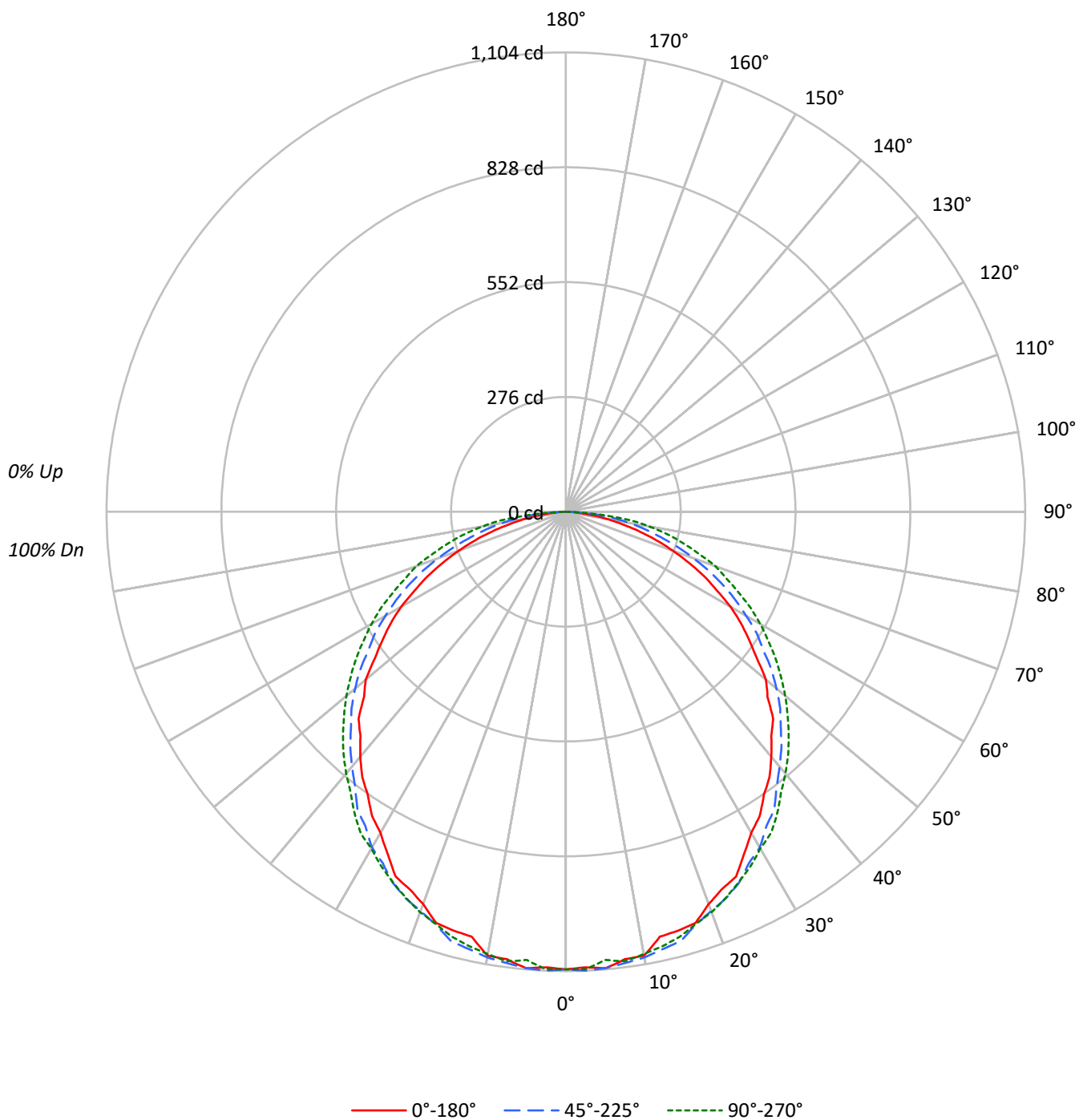
Lumens per Lamp: N/A
Luminaire Lumens: 3211.0 lumens
Efficiency: N/A
Efficacy: 152.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	3444	3444	3444
5°	3461	3461	3399
10°	3444	3458	3431
15°	3379	3461	3428
20°	3343	3402	3412
25°	3343	3400	3395
30°	3221	3370	3380
35°	3173	3338	3385
40°	3141	3266	3356
45°	3120	3233	3354
50°	3059	3219	3353
55°	2935	3159	3361
60°	2865	3135	3379
65°	2719	3090	3389
70°	2508	2990	3505
75°	2229	2859	3538
80°	1852	2802	3668
85°	1132	2508	3101

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3795 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.3	3.2
10°-20°	298.0	9.3
20°-30°	449.5	14.0
30°-40°	539.9	16.8
40°-50°	563.5	17.6
50°-60°	518.9	16.2
60°-70°	409.8	12.8
70°-80°	252.3	7.9
80°-90°	74.8	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°	851.8	26.5
0°-40°	1391.7	43.3
0°-60°	2474.1	77.1
0°-90°	3211.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3211.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1100	1100	1100	1100	1100	
5°	1101	1090	1101	1102	1081	104
15°	1042	1057	1068	1063	1057	295
25°	968	974	984	980	983	441
35°	830	845	873	877	885	522
45°	705	710	730	746	757	539
55°	538	552	579	605	616	483
65°	367	380	417	447	457	361
75°	184	202	236	274	292	195
85°	32	45	70	83	86	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1099.8	1099.8	1099.8	1099.8	1099.8
2.5°	1095.7	1107.3	1103.9	1105.9	1100.5
5°	1101.1	1090.2	1101.1	1102.5	1081.3
7.5°	1084.7	1086.1	1093.6	1095.7	1089.5
10°	1083.3	1087.4	1087.4	1080.6	1079.2
12.5°	1045.7	1066.2	1076.5	1081.3	1069.6
15°	1042.2	1056.6	1067.6	1062.8	1057.3
17.5°	1036.1	1032.0	1039.5	1045.0	1038.8
20°	1003.2	1010.1	1021.0	1022.4	1023.8
22.5°	981.3	983.4	1005.3	1007.3	1004.6
25°	967.6	974.5	984.0	979.9	982.7
27.5°	927.2	943.6	952.5	960.8	960.8
30°	890.9	910.1	932.0	934.7	934.7
32.5°	866.9	880.0	896.4	901.9	916.9
35°	830.0	845.0	873.1	877.2	885.4
37.5°	803.9	819.0	832.0	846.4	849.8
40°	768.3	784.1	799.1	815.6	821.1
42.5°	730.7	747.1	767.0	784.1	790.9
45°	704.6	710.1	730.0	745.7	757.4
47.5°	657.4	673.1	698.5	718.3	723.1
50°	627.9	634.1	660.8	687.5	688.2
52.5°	578.6	597.1	623.2	648.5	651.9
55°	537.6	551.9	578.6	604.7	615.6
57.5°	499.2	510.2	544.4	570.4	576.6
60°	457.4	469.1	500.6	530.7	539.6
62.5°	408.8	425.3	459.5	488.3	500.6
65°	367.0	380.1	417.0	447.2	457.4
67.5°	319.8	337.6	372.5	406.1	417.0
70°	273.9	291.7	326.6	361.6	382.8
72.5°	228.7	247.2	282.1	322.5	334.2
75°	184.2	202.0	236.3	273.9	292.4
77.5°	140.4	159.6	194.5	232.1	249.9
80°	102.7	117.8	155.4	188.3	203.4
82.5°	63.7	79.4	114.4	145.2	158.2
85°	31.5	45.2	69.8	82.9	86.3
87.5°	9.6	14.4	21.9	28.8	32.9
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	15.76	17.43	16.13	17.74	18.05	16.58	18.25	16.95	18.56	18.88
	3H	17.52	19.02	17.89	19.35	19.71	18.73	20.24	19.11	20.57	20.93
	4H	18.13	19.55	18.53	19.90	20.27	19.65	21.07	20.04	21.42	21.79
	6H	18.53	19.85	18.94	20.22	20.61	20.45	21.77	20.86	22.13	22.52
	8H	18.64	19.90	19.06	20.29	20.69	20.77	22.03	21.19	22.42	22.82
	12H	18.68	19.89	19.11	20.27	20.70	20.98	22.19	21.40	22.57	23.00
4H	2H	16.55	17.98	16.95	18.32	18.70	17.19	18.61	17.59	18.96	19.34
	3H	18.53	19.73	18.94	20.12	20.52	19.57	20.77	19.98	21.17	21.57
	4H	19.26	20.35	19.69	20.76	21.19	20.64	21.72	21.07	22.14	22.57
	6H	19.78	20.73	20.23	21.17	21.63	21.60	22.56	22.06	23.00	23.45
	8H	19.92	20.81	20.38	21.25	21.72	22.00	22.89	22.46	23.34	23.80
	12H	20.00	20.80	20.47	21.27	21.74	22.27	23.07	22.75	23.55	24.02
8H	4H	19.72	20.62	20.18	21.06	21.52	20.93	21.82	21.39	22.26	22.72
	6H	20.38	21.12	20.87	21.61	22.09	22.05	22.80	22.54	23.28	23.76
	8H	20.59	21.25	21.09	21.76	22.24	22.56	23.23	23.07	23.73	24.22
	12H	20.71	21.31	21.22	21.80	22.35	22.93	23.52	23.43	24.01	24.57
12H	4H	19.82	20.62	20.30	21.09	21.56	20.95	21.76	21.43	22.23	22.70
	6H	20.52	21.19	21.03	21.69	22.18	22.10	22.77	22.61	23.28	23.76
	8H	20.79	21.38	21.30	21.87	22.43	22.67	23.27	23.18	23.76	24.31