

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: P1586573

Luminaire Tested: 22CZSP-A-33HE-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-668-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-A-33HE-L830
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 3000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

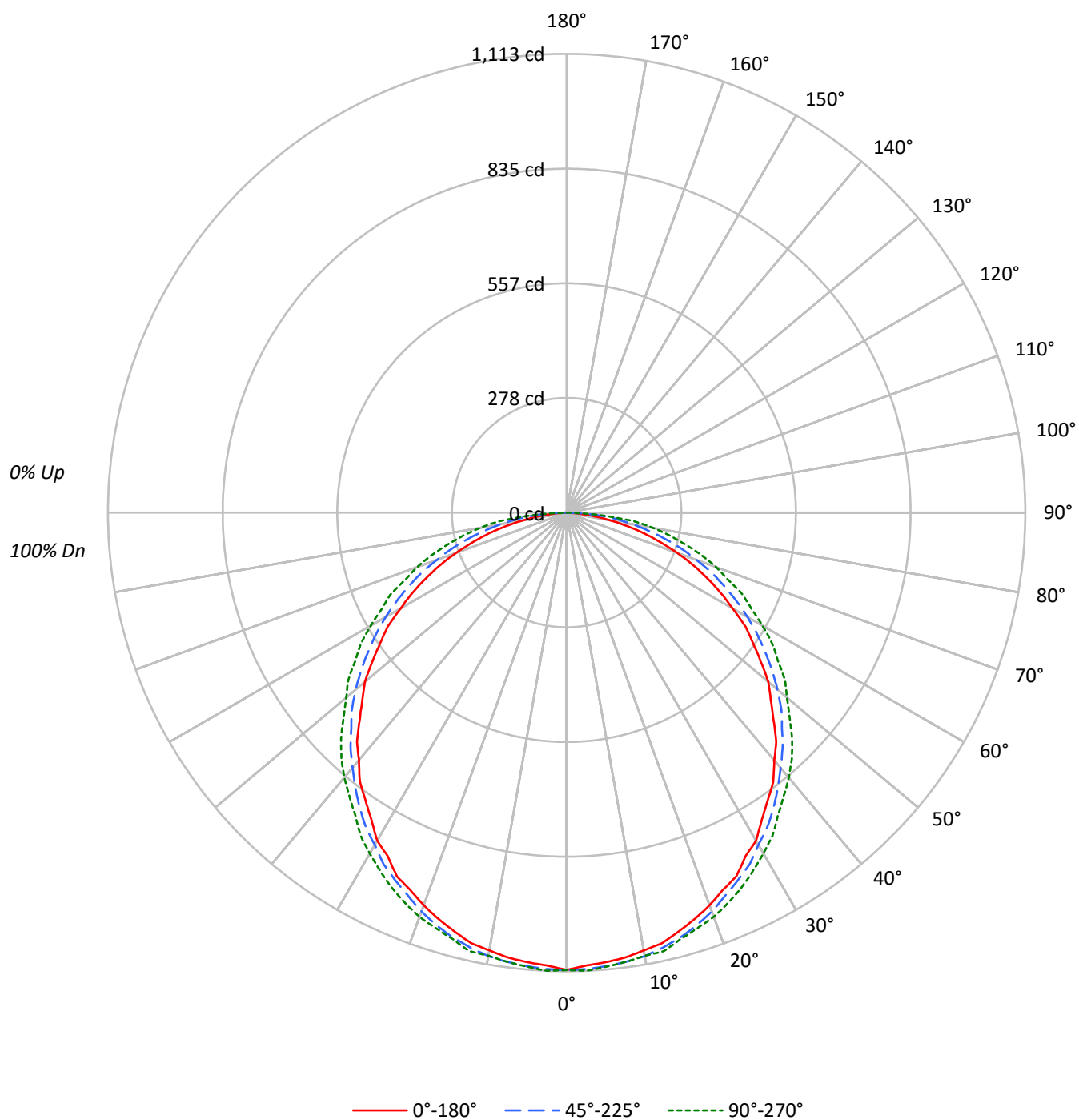
Lumens per Lamp: N/A
Luminaire Lumens: 3269.0 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45		56	50	44		55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39		51	44	39		49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35		46	40	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3475	3475	3475
5°	3442	3473	3476
10°	3431	3475	3472
15°	3410	3459	3472
20°	3379	3432	3479
25°	3365	3399	3469
30°	3323	3366	3453
35°	3253	3344	3421
40°	3204	3302	3429
45°	3144	3272	3427
50°	3112	3254	3400
55°	3013	3210	3417
60°	2912	3175	3438
65°	2786	3126	3496
70°	2618	3067	3533
75°	2359	3013	3605
80°	1929	2957	3841
85°	1257	2946	3593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4030 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	3.2
10°-20°	300.4	9.2
20°-30°	454.0	13.9
30°-40°	547.6	16.8
40°-50°	572.4	17.5
50°-60°	527.9	16.1
60°-70°	418.3	12.8
70°-80°	261.6	8.0
80°-90°	82.0	2.5
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°	859.3	26.3
0°-40°	1406.9	43.0
0°-60°	2507.2	76.7
0°-90°	3269.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3269.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1110	1110	1110	1110	1110	
5°	1095	1100	1105	1109	1106	104
15°	1052	1057	1067	1074	1071	297
25°	974	971	984	998	1004	447
35°	851	861	875	890	895	534
45°	710	720	739	758	774	549
55°	552	565	588	620	626	495
65°	376	392	422	455	472	372
75°	195	211	249	284	298	205
85°	35	50	82	96	100	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1109.9	1109.9	1109.9	1109.9	1109.9
2.5°	1099.9	1104.9	1108.9	1107.9	1112.9
5°	1094.9	1099.9	1104.9	1108.9	1105.9
7.5°	1088.9	1093.9	1099.9	1105.9	1099.9
10°	1078.9	1081.9	1092.9	1093.9	1091.9
12.5°	1069.9	1072.9	1080.9	1087.9	1089.9
15°	1051.9	1056.9	1066.9	1073.9	1070.9
17.5°	1033.9	1040.9	1049.9	1056.9	1056.9
20°	1013.9	1018.9	1029.9	1034.9	1043.9
22.5°	990.9	996.9	1005.9	1019.9	1024.9
25°	973.9	970.9	983.9	997.9	1003.9
27.5°	939.9	943.9	961.9	974.9	979.9
30°	918.9	920.9	930.9	948.9	954.9
32.5°	881.9	887.9	905.9	918.9	929.9
35°	850.9	860.9	874.9	889.9	894.9
37.5°	823.9	825.9	841.9	861.9	865.9
40°	783.9	795.9	807.9	832.9	838.9
42.5°	752.9	758.9	775.9	799.9	808.9
45°	709.9	719.9	738.9	757.9	773.9
47.5°	671.9	681.9	706.9	730.9	733.9
50°	638.9	642.9	667.9	694.9	697.9
52.5°	593.9	603.9	627.9	657.9	667.9
55°	551.9	564.9	587.9	619.9	625.9
57.5°	514.9	520.9	547.9	579.9	591.9
60°	464.9	481.9	506.9	537.9	548.9
62.5°	421.9	437.9	464.9	493.9	505.9
65°	376.0	391.9	421.9	454.9	471.9
67.5°	332.0	345.0	381.0	414.9	422.9
70°	286.0	301.0	335.0	370.0	385.9
72.5°	238.0	255.0	293.0	326.0	343.0
75°	195.0	211.0	249.0	284.0	298.0
77.5°	150.0	168.0	205.0	240.0	256.0
80°	107.0	125.0	164.0	199.0	213.0
82.5°	69.0	88.0	125.0	156.0	168.0
85°	35.0	50.0	82.0	96.0	100.0
87.5°	11.0	18.0	28.0	32.0	32.0
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	15.85	17.52	16.22	17.83	18.15	16.64	18.31	17.01	18.62	18.94
	3H	17.63	19.15	18.01	19.47	19.83	18.79	20.30	19.16	20.62	20.98
	4H	18.27	19.70	18.67	20.05	20.42	19.71	21.14	20.11	21.48	21.86
	6H	18.70	20.02	19.11	20.39	20.78	20.54	21.86	20.95	22.22	22.61
	8H	18.81	20.08	19.23	20.47	20.87	20.88	22.15	21.31	22.54	22.94
	12H	18.87	20.08	19.29	20.46	20.89	21.12	22.34	21.55	22.72	23.15
4H	2H	16.62	18.05	17.02	18.40	18.77	17.24	18.67	17.64	19.01	19.39
	3H	18.64	19.84	19.04	20.24	20.64	19.62	20.83	20.03	21.22	21.62
	4H	19.40	20.49	19.83	20.90	21.34	20.71	21.80	21.14	22.22	22.65
	6H	19.94	20.90	20.40	21.34	21.80	21.71	22.67	22.16	23.11	23.56
	8H	20.10	21.00	20.56	21.44	21.90	22.14	23.03	22.60	23.48	23.94
	12H	20.19	21.00	20.67	21.47	21.94	22.45	23.26	22.93	23.73	24.20
8H	4H	19.88	20.77	20.34	21.22	21.68	21.02	21.92	21.48	22.36	22.82
	6H	20.57	21.32	21.06	21.80	22.28	22.18	22.93	22.68	23.42	23.89
	8H	20.79	21.47	21.30	21.97	22.46	22.73	23.40	23.24	23.91	24.39
	12H	20.94	21.54	21.45	22.03	22.59	23.16	23.76	23.66	24.24	24.80
12H	4H	19.97	20.78	20.45	21.26	21.72	21.05	21.86	21.53	22.33	22.80
	6H	20.71	21.39	21.22	21.89	22.38	22.24	22.92	22.75	23.42	23.91
	8H	21.02	21.61	21.52	22.10	22.66	22.86	23.45	23.36	23.94	24.50