

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: P1586385

Luminaire Tested: 22CZSP-37HE-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586385
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-37HE-L935
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

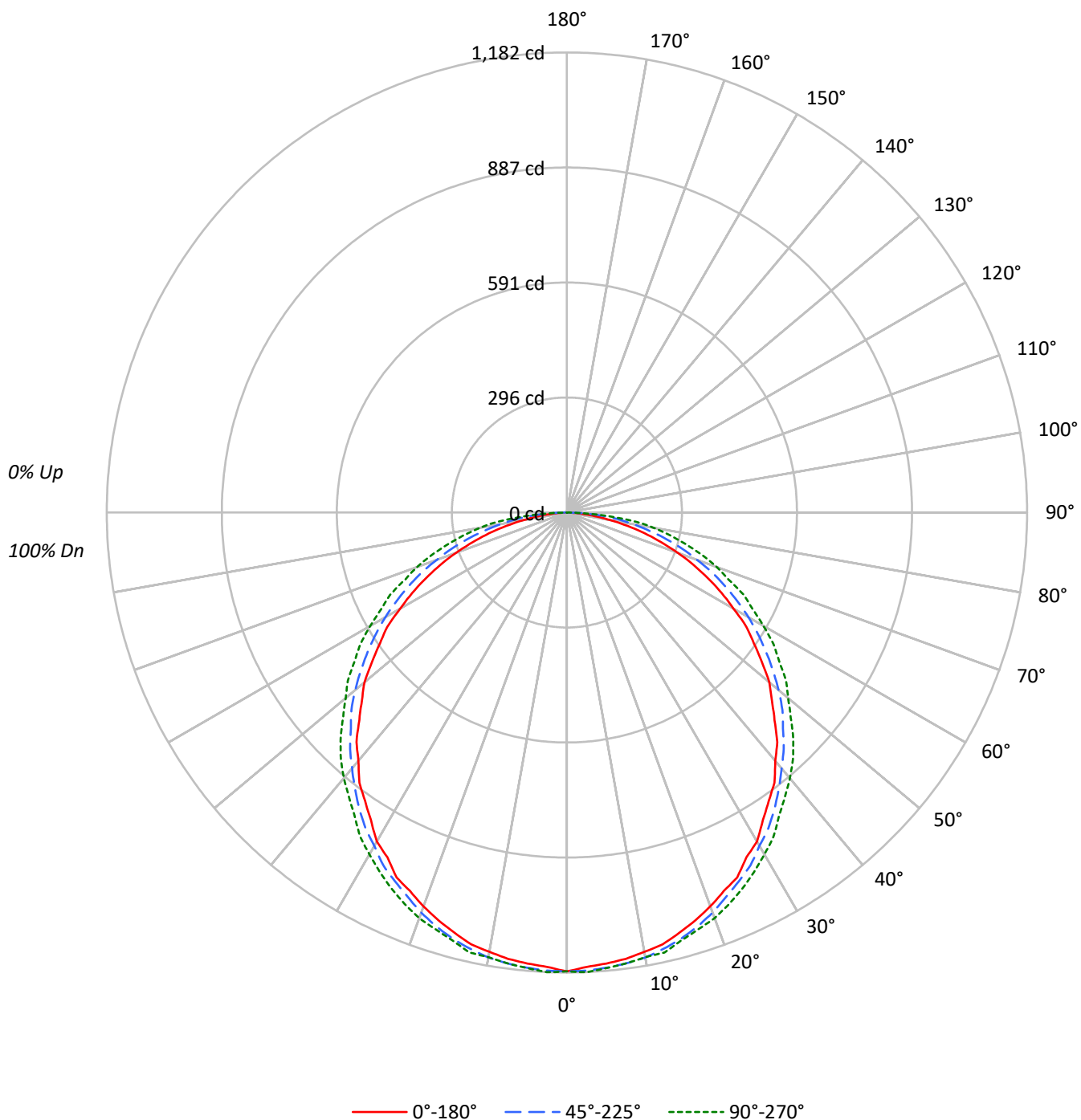
Lumens per Lamp: N/A
Luminaire Lumens: 3473.0 lumens
Efficiency: N/A
Efficacy: 144.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.1
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	50	30	10
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°	3692	3692	3692
5°	3656	3690	3693
10°	3644	3692	3688
15°	3623	3674	3688
20°	3589	3646	3696
25°	3575	3612	3685
30°	3530	3576	3668
35°	3456	3553	3634
40°	3404	3508	3643
45°	3340	3476	3641
50°	3307	3457	3612
55°	3201	3410	3630
60°	3094	3373	3652
65°	2959	3322	3715
70°	2781	3258	3754
75°	2506	3200	3830
80°	2050	3141	4081
85°	1337	3129	3816

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4282 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.5	3.2
10°-20°	319.1	9.2
20°-30°	482.3	13.9
30°-40°	581.7	16.8
40°-50°	608.2	17.5
50°-60°	560.8	16.1
60°-70°	444.4	12.8
70°-80°	277.8	8.0
80°-90°	87.2	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°	912.9	26.3
0°-40°	1494.7	43.0
0°-60°	2663.6	76.7
0°-90°	3473.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3473.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1179	1179	1179	1179	1179	
5°	1163	1168	1174	1178	1175	111
15°	1118	1123	1133	1141	1138	315
25°	1035	1032	1045	1060	1066	474
35°	904	915	930	945	951	567
45°	754	765	785	805	822	584
55°	586	600	625	659	665	526
65°	399	416	448	483	501	396
75°	207	224	264	302	317	218
85°	37	53	87	102	106	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1179.1	1179.1	1179.1	1179.1	1179.1
2.5°	1168.5	1173.8	1178.1	1177.0	1182.3
5°	1163.2	1168.5	1173.8	1178.1	1174.9
7.5°	1156.8	1162.1	1168.5	1174.9	1168.5
10°	1146.2	1149.4	1161.1	1162.1	1160.0
12.5°	1136.6	1139.8	1148.3	1155.7	1157.9
15°	1117.5	1122.8	1133.4	1140.9	1137.7
17.5°	1098.4	1105.8	1115.4	1122.8	1122.8
20°	1077.1	1082.4	1094.1	1099.4	1109.0
22.5°	1052.7	1059.1	1068.6	1083.5	1088.8
25°	1034.6	1031.5	1045.3	1060.1	1066.5
27.5°	998.5	1002.8	1021.9	1035.7	1041.0
30°	976.2	978.3	989.0	1008.1	1014.5
32.5°	936.9	943.3	962.4	976.2	987.9
35°	904.0	914.6	929.5	945.4	950.7
37.5°	875.3	877.4	894.4	915.7	919.9
40°	832.8	845.6	858.3	884.9	891.2
42.5°	799.9	806.3	824.3	849.8	859.4
45°	754.2	764.8	785.0	805.2	822.2
47.5°	713.8	724.5	751.0	776.5	779.7
50°	678.8	683.0	709.6	738.3	741.5
52.5°	631.0	641.6	667.1	699.0	709.6
55°	586.4	600.2	624.6	658.6	665.0
57.5°	547.1	553.4	582.1	616.1	628.9
60°	494.0	512.0	538.6	571.5	583.2
62.5°	448.3	465.3	494.0	524.8	537.5
65°	399.4	416.4	448.3	483.3	501.4
67.5°	352.7	366.5	404.7	440.8	449.3
70°	303.8	319.7	355.9	393.0	410.0
72.5°	252.8	270.9	311.2	346.3	364.4
75°	207.1	224.1	264.5	301.7	316.6
77.5°	159.3	178.5	217.8	254.9	271.9
80°	113.7	132.8	174.2	211.4	226.3
82.5°	73.3	93.5	132.8	165.7	178.5
85°	37.2	53.1	87.1	102.0	106.2
87.5°	11.7	19.1	29.7	34.0	34.0
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	16.06	17.73	16.43	18.04	18.36	16.85	18.52	17.22	18.83	19.15
	3H	17.84	19.36	18.22	19.68	20.04	19.00	20.51	19.37	20.83	21.19
	4H	18.48	19.91	18.88	20.26	20.63	19.92	21.35	20.32	21.69	22.07
	6H	18.91	20.23	19.32	20.60	20.99	20.75	22.07	21.16	22.43	22.82
	8H	19.02	20.29	19.44	20.68	21.08	21.09	22.36	21.52	22.75	23.15
	12H	19.08	20.29	19.50	20.67	21.10	21.33	22.55	21.76	22.93	23.36
4H	2H	16.84	18.26	17.23	18.61	18.99	17.45	18.88	17.85	19.22	19.60
	3H	18.85	20.05	19.25	20.45	20.85	19.83	21.04	20.24	21.44	21.83
	4H	19.61	20.70	20.04	21.11	21.55	20.92	22.01	21.35	22.43	22.86
	6H	20.15	21.11	20.61	21.55	22.01	21.92	22.88	22.37	23.32	23.77
	8H	20.31	21.21	20.77	21.65	22.11	22.35	23.24	22.81	23.69	24.15
	12H	20.40	21.21	20.88	21.68	22.15	22.66	23.47	23.14	23.94	24.41
8H	4H	20.09	20.98	20.55	21.43	21.89	21.23	22.13	21.69	22.57	23.03
	6H	20.78	21.53	21.27	22.01	22.49	22.39	23.14	22.89	23.63	24.10
	8H	21.00	21.68	21.51	22.18	22.67	22.94	23.61	23.45	24.12	24.60
	12H	21.15	21.75	21.66	22.24	22.80	23.37	23.96	23.87	24.45	25.01
12H	4H	20.18	20.99	20.66	21.47	21.93	21.26	22.07	21.74	22.54	23.01
	6H	20.92	21.60	21.43	22.10	22.59	22.45	23.13	22.96	23.63	24.11
	8H	21.23	21.82	21.73	22.31	22.87	23.07	23.66	23.57	24.15	24.71