

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: P1586389

Luminaire Tested: 22CZSP-37HE-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586389
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-L945
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

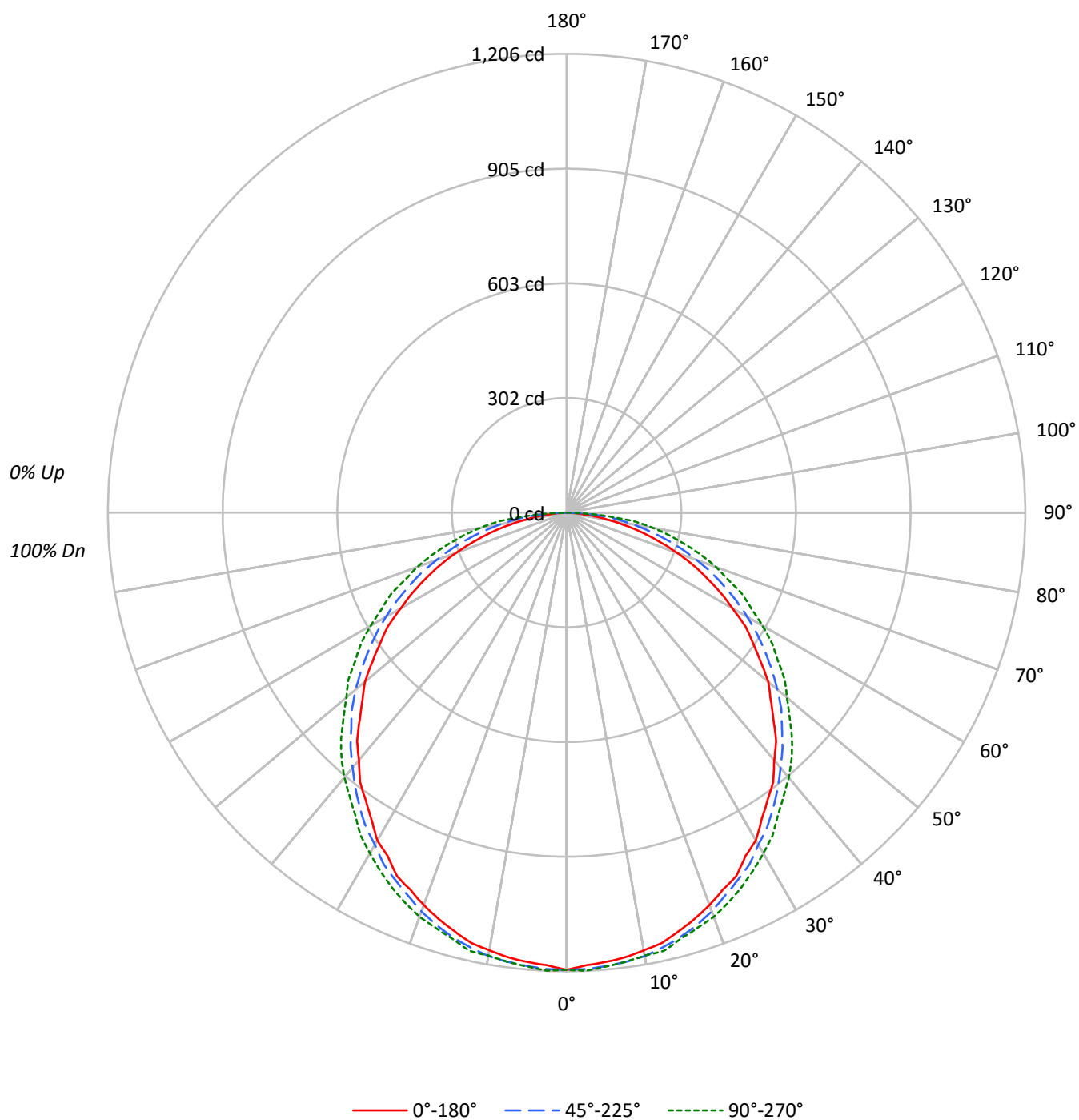
Lumens per Lamp: N/A
Luminaire Lumens: 3541.0 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	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°	3764	3764	3764
5°	3728	3762	3765
10°	3716	3764	3761
15°	3694	3746	3760
20°	3660	3718	3768
25°	3645	3682	3757
30°	3599	3646	3740
35°	3523	3623	3705
40°	3471	3577	3714
45°	3405	3544	3712
50°	3372	3525	3683
55°	3264	3476	3701
60°	3154	3439	3724
65°	3017	3387	3788
70°	2836	3322	3828
75°	2555	3263	3905
80°	2090	3203	4160
85°	1362	3190	3891

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4366 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	3.2
10°-20°	325.4	9.2
20°-30°	491.8	13.9
30°-40°	593.1	16.8
40°-50°	620.1	17.5
50°-60°	571.8	16.1
60°-70°	453.1	12.8
70°-80°	283.3	8.0
80°-90°	88.9	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°	930.8	26.3
0°-40°	1523.9	43.0
0°-60°	2715.8	76.7
0°-90°	3541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3541.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1202	1202	1202	1202	1202	
5°	1186	1191	1197	1201	1198	113
15°	1139	1145	1156	1163	1160	321
25°	1055	1052	1066	1081	1087	484
35°	922	932	948	964	969	578
45°	769	780	800	821	838	595
55°	598	612	637	672	678	536
65°	407	425	457	493	511	403
75°	211	228	270	308	323	223
85°	38	54	89	104	108	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1202.2	1202.2	1202.2	1202.2	1202.2
2.5°	1191.4	1196.8	1201.1	1200.0	1205.5
5°	1186.0	1191.4	1196.8	1201.1	1197.9
7.5°	1179.5	1184.9	1191.4	1197.9	1191.4
10°	1168.6	1171.9	1183.8	1184.9	1182.7
12.5°	1158.9	1162.1	1170.8	1178.4	1180.5
15°	1139.4	1144.8	1155.6	1163.2	1160.0
17.5°	1119.9	1127.5	1137.2	1144.8	1144.8
20°	1098.2	1103.6	1115.6	1121.0	1130.7
22.5°	1073.3	1079.8	1089.6	1104.7	1110.1
25°	1054.9	1051.7	1065.7	1080.9	1087.4
27.5°	1018.1	1022.4	1041.9	1056.0	1061.4
30°	995.3	997.5	1008.3	1027.8	1034.3
32.5°	955.3	961.8	981.3	995.3	1007.3
35°	921.7	932.5	947.7	963.9	969.3
37.5°	892.4	894.6	911.9	933.6	937.9
40°	849.1	862.1	875.1	902.2	908.7
42.5°	815.5	822.0	840.5	866.5	876.2
45°	769.0	779.8	800.4	821.0	838.3
47.5°	727.8	738.7	765.7	791.7	795.0
50°	692.1	696.4	723.5	752.7	756.0
52.5°	643.3	654.2	680.2	712.7	723.5
55°	597.9	611.9	636.8	671.5	678.0
57.5°	557.8	564.3	593.5	628.2	641.2
60°	503.6	522.0	549.1	582.7	594.6
62.5°	457.1	474.4	503.6	535.0	548.0
65°	407.2	424.6	457.1	492.8	511.2
67.5°	359.6	373.7	412.6	449.5	458.1
70°	309.8	326.0	362.8	400.7	418.1
72.5°	257.8	276.2	317.3	353.1	371.5
75°	211.2	228.5	269.7	307.6	322.8
77.5°	162.5	182.0	222.0	259.9	277.3
80°	115.9	135.4	177.6	215.5	230.7
82.5°	74.7	95.3	135.4	169.0	182.0
85°	37.9	54.2	88.8	104.0	108.3
87.5°	11.9	19.5	30.3	34.7	34.7
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	16.13	17.80	16.50	18.11	18.43	16.92	18.59	17.28	18.90	19.22
	3H	17.91	19.43	18.29	19.75	20.11	19.06	20.58	19.44	20.90	21.26
	4H	18.55	19.98	18.95	20.32	20.70	19.99	21.42	20.39	21.76	22.14
	6H	18.98	20.30	19.39	20.67	21.06	20.81	22.14	21.22	22.50	22.89
	8H	19.09	20.36	19.51	20.75	21.14	21.16	22.43	21.58	22.82	23.21
	12H	19.14	20.36	19.57	20.74	21.17	21.40	22.62	21.83	23.00	23.43
4H	2H	16.90	18.33	17.30	18.68	19.05	17.52	18.94	17.91	19.29	19.67
	3H	18.91	20.12	19.32	20.51	20.91	19.90	21.11	20.31	21.50	21.90
	4H	19.67	20.77	20.10	21.18	21.61	20.99	22.08	21.42	22.49	22.93
	6H	20.22	21.18	20.67	21.62	22.07	21.99	22.95	22.44	23.39	23.84
	8H	20.38	21.27	20.84	21.72	22.18	22.41	23.31	22.87	23.75	24.22
	12H	20.47	21.27	20.94	21.75	22.22	22.73	23.54	23.21	24.01	24.48
8H	4H	20.15	21.05	20.61	21.49	21.96	21.30	22.19	21.76	22.64	23.10
	6H	20.84	21.59	21.34	22.08	22.55	22.46	23.21	22.95	23.70	24.17
	8H	21.07	21.75	21.58	22.25	22.73	23.01	23.68	23.51	24.18	24.67
	12H	21.22	21.82	21.72	22.31	22.86	23.44	24.03	23.94	24.52	25.08
12H	4H	20.25	21.06	20.73	21.53	22.00	21.33	22.13	21.80	22.61	23.08
	6H	20.99	21.67	21.50	22.17	22.66	22.52	23.19	23.03	23.70	24.18
	8H	21.30	21.89	21.80	22.38	22.94	23.14	23.73	23.64	24.22	24.78