

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: P1586627

Luminaire Tested: 22CZSP-A-37HE-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586627
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-37HE-L940
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

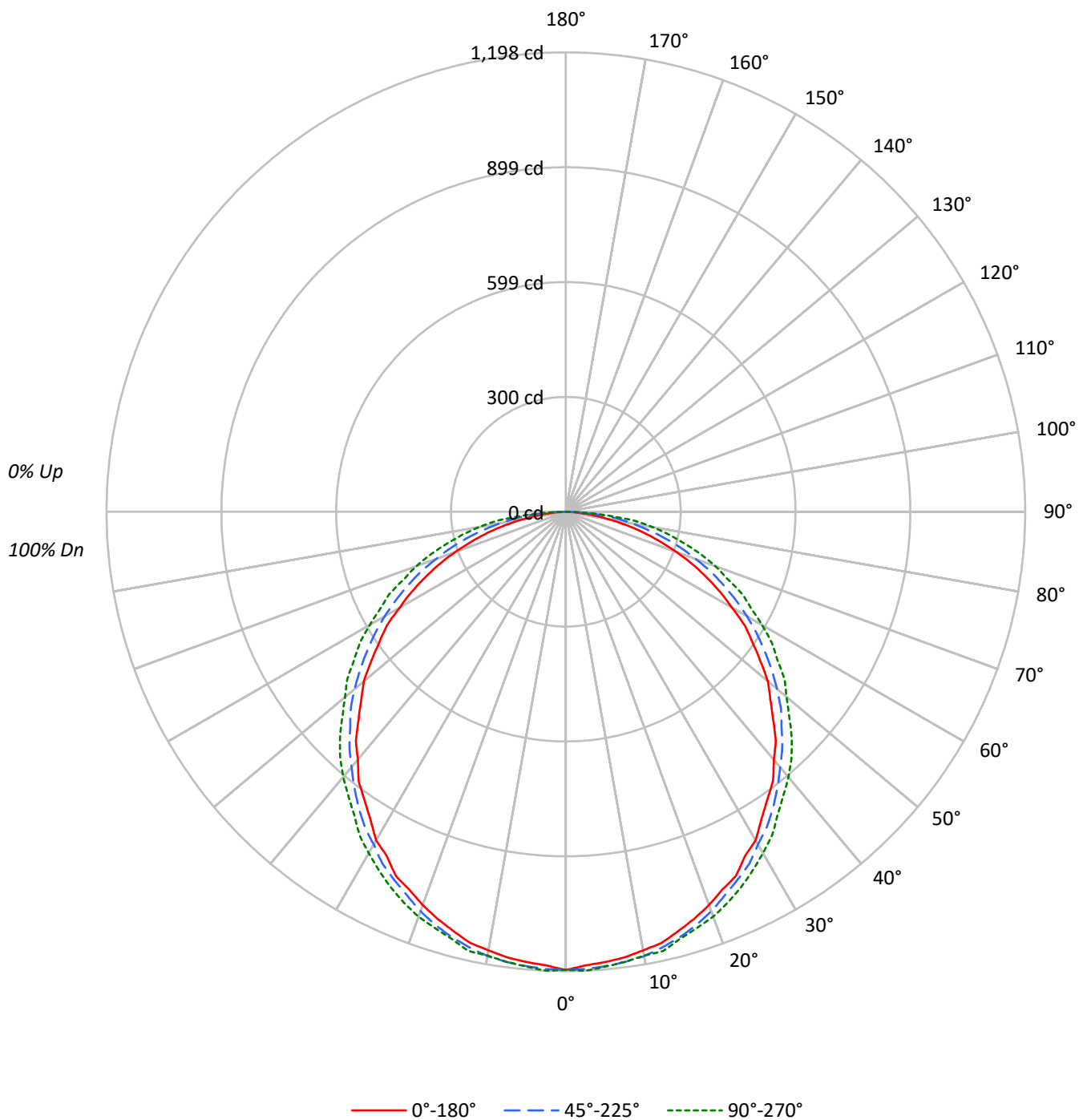
Lumens per Lamp: N/A
Luminaire Lumens: 3519.0 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	3741	3741	3741
5°	3705	3739	3742
10°	3693	3741	3737
15°	3671	3723	3737
20°	3637	3694	3744
25°	3622	3659	3734
30°	3577	3623	3717
35°	3502	3600	3682
40°	3449	3555	3691
45°	3384	3522	3689
50°	3351	3503	3660
55°	3243	3455	3678
60°	3134	3418	3701
65°	2999	3365	3764
70°	2818	3301	3804
75°	2539	3242	3880
80°	2077	3183	4135
85°	1354	3172	3866

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4337 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.9	3.2
10°-20°	323.4	9.2
20°-30°	488.7	13.9
30°-40°	589.4	16.8
40°-50°	616.2	17.5
50°-60°	568.2	16.1
60°-70°	450.2	12.8
70°-80°	281.5	8.0
80°-90°	88.3	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°	925.0	26.3
0°-40°	1514.5	43.0
0°-60°	2698.9	76.7
0°-90°	3519.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3519.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1195	1195	1195	1195	1195	
5°	1179	1184	1189	1194	1190	112
15°	1132	1138	1148	1156	1153	319
25°	1048	1045	1059	1074	1081	481
35°	916	927	942	958	963	574
45°	764	775	795	816	833	591
55°	594	608	633	667	674	533
65°	405	422	454	490	508	401
75°	210	227	268	306	321	221
85°	38	54	88	103	108	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1194.7	1194.7	1194.7	1194.7	1194.7
2.5°	1184.0	1189.4	1193.7	1192.6	1198.0
5°	1178.6	1184.0	1189.4	1193.7	1190.4
7.5°	1172.1	1177.5	1184.0	1190.4	1184.0
10°	1161.4	1164.6	1176.4	1177.5	1175.4
12.5°	1151.7	1154.9	1163.5	1171.1	1173.2
15°	1132.3	1137.7	1148.5	1156.0	1152.8
17.5°	1112.9	1120.5	1130.2	1137.7	1137.7
20°	1091.4	1096.8	1108.6	1114.0	1123.7
22.5°	1066.6	1073.1	1082.8	1097.9	1103.2
25°	1048.4	1045.1	1059.1	1074.2	1080.6
27.5°	1011.8	1016.1	1035.4	1049.4	1054.8
30°	989.2	991.3	1002.1	1021.4	1027.9
32.5°	949.3	955.8	975.2	989.2	1001.0
35°	916.0	926.7	941.8	957.9	963.3
37.5°	886.9	889.1	906.3	927.8	932.1
40°	843.8	856.8	869.7	896.6	903.0
42.5°	810.5	816.9	835.2	861.1	870.8
45°	764.2	775.0	795.4	815.9	833.1
47.5°	723.3	734.1	761.0	786.8	790.0
50°	687.8	692.1	719.0	748.1	751.3
52.5°	639.3	650.1	675.9	708.2	719.0
55°	594.1	608.1	632.9	667.3	673.8
57.5°	554.3	560.8	589.8	624.3	637.2
60°	500.5	518.8	545.7	579.1	590.9
62.5°	454.2	471.4	500.5	531.7	544.6
65°	404.7	421.9	454.2	489.7	508.0
67.5°	357.3	371.3	410.1	446.7	455.3
70°	307.8	324.0	360.6	398.2	415.5
72.5°	256.2	274.5	315.4	350.9	369.2
75°	209.9	227.1	268.0	305.7	320.7
77.5°	161.5	180.8	220.6	258.3	275.5
80°	115.2	134.5	176.5	214.2	229.3
82.5°	74.3	94.7	134.5	167.9	180.8
85°	37.7	53.8	88.3	103.3	107.6
87.5°	11.8	19.4	30.1	34.4	34.4
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	16.11	17.78	16.47	18.09	18.40	16.90	18.57	17.26	18.88	19.19
	3H	17.89	19.40	18.27	19.73	20.09	19.04	20.56	19.42	20.88	21.24
	4H	18.53	19.96	18.93	20.30	20.68	19.97	21.39	20.36	21.74	22.12
	6H	18.95	20.28	19.36	20.64	21.03	20.79	22.12	21.20	22.48	22.87
	8H	19.07	20.34	19.49	20.72	21.12	21.14	22.41	21.56	22.79	23.19
	12H	19.12	20.34	19.55	20.72	21.15	21.38	22.60	21.81	22.98	23.41
4H	2H	16.88	18.31	17.28	18.66	19.03	17.50	18.92	17.89	19.27	19.64
	3H	18.89	20.10	19.30	20.49	20.89	19.88	21.08	20.29	21.48	21.88
	4H	19.65	20.74	20.08	21.16	21.59	20.97	22.06	21.40	22.47	22.91
	6H	20.20	21.16	20.65	21.60	22.05	21.97	22.92	22.42	23.36	23.82
	8H	20.36	21.25	20.81	21.69	22.16	22.39	23.29	22.85	23.73	24.20
	12H	20.44	21.25	20.92	21.73	22.19	22.71	23.52	23.18	23.99	24.46
8H	4H	20.13	21.03	20.59	21.47	21.94	21.28	22.17	21.73	22.61	23.08
	6H	20.82	21.57	21.31	22.06	22.53	22.44	23.19	22.93	23.68	24.15
	8H	21.05	21.72	21.56	22.23	22.71	22.98	23.66	23.49	24.16	24.65
	12H	21.20	21.79	21.70	22.28	22.84	23.41	24.01	23.92	24.50	25.06
12H	4H	20.23	21.04	20.71	21.51	21.98	21.30	22.11	21.78	22.59	23.06
	6H	20.97	21.65	21.48	22.15	22.63	22.50	23.17	23.00	23.68	24.16
	8H	21.27	21.87	21.78	22.36	22.92	23.11	23.71	23.62	24.20	24.76