

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: P1586626

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-A-37HE-L940-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

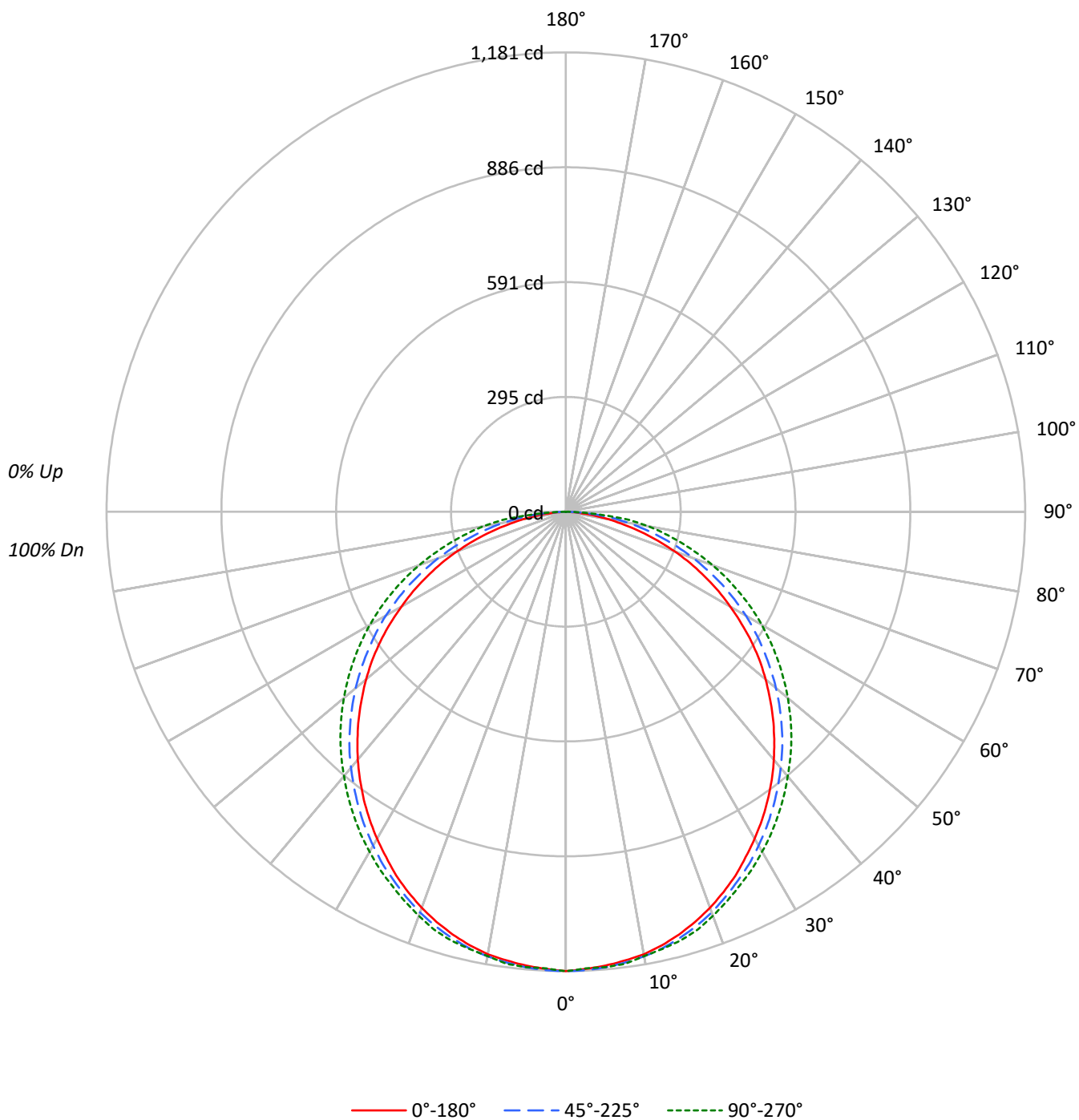
Lumens per Lamp: N/A
Luminaire Lumens: 3448.0 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	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	69
3	89	79	70	64	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	32	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°	3698	3698	3698
5°	3681	3696	3693
10°	3673	3690	3688
15°	3647	3677	3699
20°	3610	3653	3684
25°	3566	3615	3660
30°	3510	3584	3649
35°	3459	3549	3638
40°	3402	3513	3628
45°	3337	3478	3632
50°	3265	3435	3630
55°	3181	3387	3635
60°	3061	3350	3644
65°	2921	3285	3655
70°	2722	3193	3671
75°	2426	3067	3707
80°	2005	2919	3888
85°	1304	2637	3399

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4011 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	3.2
10°-20°	319.8	9.3
20°-30°	482.4	14.0
30°-40°	581.0	16.8
40°-50°	606.7	17.6
50°-60°	557.2	16.2
60°-70°	438.9	12.7
70°-80°	269.3	7.8
80°-90°	81.0	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°	913.9	26.5
0°-40°	1494.9	43.4
0°-60°	2658.8	77.1
0°-90°	3448.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3448.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1171	1173	1176	1180	1175	111
15°	1125	1127	1134	1141	1141	317
25°	1032	1034	1046	1059	1059	475
35°	905	909	928	947	952	566
45°	754	762	785	813	820	581
55°	583	593	620	655	666	520
65°	394	408	443	480	493	390
75°	200	216	254	294	306	213
85°	36	50	73	93	95	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1181.0	1181.0	1181.0	1181.0	1181.0
2.5°	1176.5	1178.8	1179.5	1180.3	1175.0
5°	1171.2	1172.7	1175.7	1179.5	1175.0
7.5°	1163.6	1165.1	1168.9	1174.2	1172.0
10°	1155.3	1156.1	1160.6	1164.4	1159.8
12.5°	1141.7	1144.0	1149.3	1152.3	1150.8
15°	1125.0	1127.3	1134.1	1140.9	1140.9
17.5°	1105.4	1108.4	1116.7	1125.8	1126.6
20°	1083.4	1085.7	1096.3	1105.4	1105.4
22.5°	1058.5	1061.5	1072.1	1081.9	1083.4
25°	1032.0	1034.3	1046.4	1059.2	1059.2
27.5°	1001.0	1005.5	1020.6	1033.5	1036.5
30°	970.7	974.5	991.1	1007.0	1009.3
32.5°	938.9	943.5	960.9	978.3	982.0
35°	904.9	909.4	928.3	947.2	951.8
37.5°	869.3	874.6	894.3	916.2	920.8
40°	832.2	838.3	859.5	882.9	887.5
42.5°	792.9	801.2	823.9	848.1	854.9
45°	753.6	761.9	785.3	812.6	820.1
47.5°	711.9	721.8	746.0	774.7	783.1
50°	670.3	680.2	705.1	736.2	745.2
52.5°	628.0	637.8	663.5	696.1	705.9
55°	582.6	593.2	620.4	655.2	665.8
57.5°	535.7	549.3	578.0	613.6	624.2
60°	488.8	502.4	534.9	569.7	581.8
62.5°	442.6	455.5	488.8	525.8	538.7
65°	394.2	407.8	443.4	480.4	493.3
67.5°	346.5	360.1	395.7	434.3	447.9
70°	297.3	312.5	348.8	387.4	401.0
72.5°	248.2	264.0	301.1	340.5	353.3
75°	200.5	216.4	253.5	293.6	306.4
77.5°	153.6	171.0	207.3	248.2	260.3
80°	111.2	127.9	161.9	202.0	215.6
82.5°	71.1	85.5	119.5	157.4	167.2
85°	36.3	49.9	73.4	93.1	94.6
87.5°	11.3	15.9	24.2	36.3	37.1
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	16.02	17.68	16.39	18.00	18.31	16.85	18.51	17.22	18.83	19.14
	3H	17.78	19.28	18.15	19.61	19.97	18.97	20.48	19.35	20.80	21.16
	4H	18.40	19.82	18.79	20.17	20.54	19.86	21.28	20.26	21.63	22.00
	6H	18.81	20.13	19.22	20.49	20.88	20.64	21.96	21.05	22.32	22.71
	8H	18.91	20.18	19.34	20.57	20.96	20.96	22.22	21.38	22.61	23.01
	12H	18.97	20.18	19.40	20.56	20.99	21.17	22.38	21.60	22.76	23.19
4H	2H	16.79	18.22	17.19	18.56	18.94	17.44	18.86	17.84	19.21	19.58
	3H	18.77	19.97	19.18	20.37	20.76	19.80	20.99	20.20	21.39	21.79
	4H	19.51	20.59	19.94	21.01	21.44	20.85	21.93	21.28	22.35	22.78
	6H	20.04	20.99	20.49	21.43	21.88	21.80	22.75	22.25	23.19	23.65
	8H	20.18	21.07	20.64	21.52	21.98	22.20	23.09	22.66	23.53	23.99
	12H	20.27	21.07	20.75	21.54	22.01	22.47	23.28	22.95	23.75	24.22
8H	4H	19.97	20.86	20.43	21.30	21.76	21.14	22.03	21.60	22.47	22.93
	6H	20.63	21.37	21.12	21.86	22.33	22.25	22.99	22.74	23.48	23.95
	8H	20.84	21.51	21.35	22.01	22.50	22.76	23.43	23.27	23.93	24.42
	12H	20.98	21.57	21.48	22.06	22.62	23.15	23.74	23.65	24.23	24.79
12H	4H	20.06	20.86	20.54	21.33	21.80	21.16	21.96	21.64	22.44	22.91
	6H	20.76	21.43	21.27	21.93	22.42	22.30	22.97	22.80	23.47	23.95
	8H	21.04	21.63	21.54	22.12	22.68	22.87	23.47	23.38	23.96	24.51