

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: P1586619

Luminaire Tested: 22CZSP-A-37HE-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586619
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-L845
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

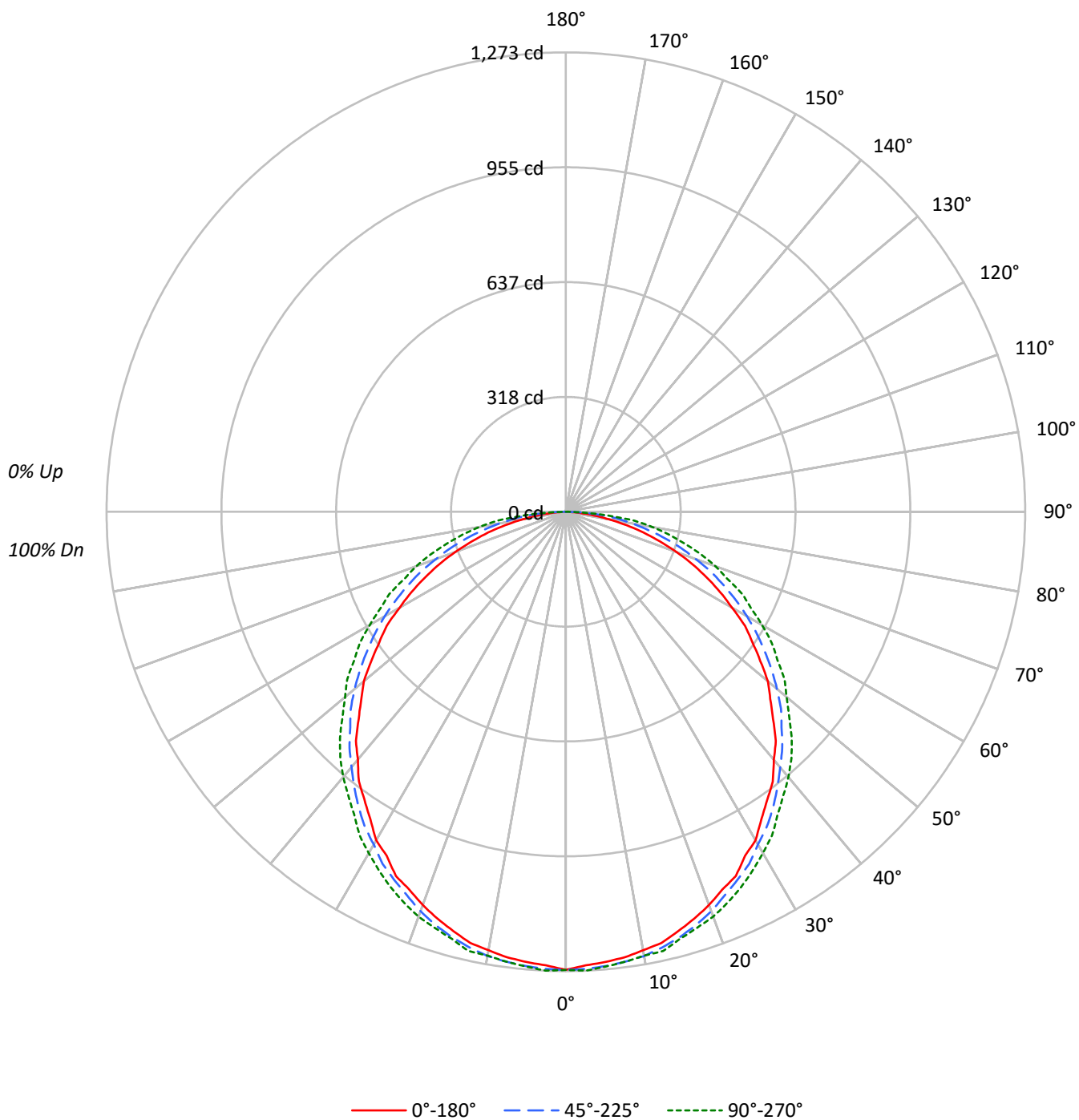
Lumens per Lamp: N/A
Luminaire Lumens: 3739.0 lumens
Efficiency: N/A
Efficacy: 155.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	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°	3975	3975	3975
5°	3936	3972	3976
10°	3924	3975	3971
15°	3900	3956	3971
20°	3864	3925	3978
25°	3849	3888	3967
30°	3800	3850	3949
35°	3720	3825	3912
40°	3665	3777	3922
45°	3596	3742	3920
50°	3560	3721	3889
55°	3446	3671	3908
60°	3330	3631	3932
65°	3186	3576	4000
70°	2995	3507	4041
75°	2698	3446	4123
80°	2207	3383	4393
85°	1437	3370	4110

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4608 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	3.2
10°-20°	343.6	9.2
20°-30°	519.3	13.9
30°-40°	626.3	16.8
40°-50°	654.7	17.5
50°-60°	603.8	16.1
60°-70°	478.4	12.8
70°-80°	299.1	8.0
80°-90°	93.8	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°	982.9	26.3
0°-40°	1609.1	43.0
0°-60°	2867.6	76.7
0°-90°	3739.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3739.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1269	1269	1269	1269	1269	
5°	1252	1258	1264	1268	1265	119
15°	1203	1209	1220	1228	1225	339
25°	1114	1110	1125	1141	1148	511
35°	973	985	1001	1018	1024	610
45°	812	823	845	867	885	628
55°	631	646	672	709	716	566
65°	430	448	483	520	540	426
75°	223	241	285	325	341	235
85°	40	57	94	110	114	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1269.4	1269.4	1269.4	1269.4	1269.4
2.5°	1258.0	1263.7	1268.3	1267.1	1272.9
5°	1252.3	1258.0	1263.7	1268.3	1264.9
7.5°	1245.4	1251.1	1258.0	1264.9	1258.0
10°	1234.0	1237.4	1250.0	1251.1	1248.8
12.5°	1223.7	1227.1	1236.3	1244.3	1246.6
15°	1203.1	1208.8	1220.2	1228.3	1224.8
17.5°	1182.5	1190.5	1200.8	1208.8	1208.8
20°	1159.6	1165.4	1177.9	1183.7	1193.9
22.5°	1133.3	1140.2	1150.5	1166.5	1172.2
25°	1113.9	1110.5	1125.3	1141.3	1148.2
27.5°	1075.0	1079.6	1100.2	1115.0	1120.8
30°	1051.0	1053.3	1064.7	1085.3	1092.2
32.5°	1008.7	1015.5	1036.1	1051.0	1063.6
35°	973.2	984.7	1000.7	1017.8	1023.5
37.5°	942.3	944.6	962.9	985.8	990.4
40°	896.6	910.3	924.1	952.6	959.5
42.5°	861.2	868.0	887.5	914.9	925.2
45°	812.0	823.4	845.1	866.9	885.2
47.5°	768.5	780.0	808.5	836.0	839.4
50°	730.8	735.4	763.9	794.8	798.3
52.5°	679.3	690.8	718.2	752.5	763.9
55°	631.3	646.1	672.5	709.0	715.9
57.5°	589.0	595.8	626.7	663.3	677.0
60°	531.8	551.2	579.8	615.3	627.9
62.5°	482.6	500.9	531.8	565.0	578.7
65°	430.0	448.3	482.6	520.3	539.8
67.5°	379.7	394.6	435.7	474.6	483.8
70°	327.1	344.2	383.1	423.1	441.4
72.5°	272.2	291.6	335.1	372.8	392.3
75°	223.0	241.3	284.8	324.8	340.8
77.5°	171.5	192.1	234.4	274.5	292.8
80°	122.4	143.0	187.6	227.6	243.6
82.5°	78.9	100.6	143.0	178.4	192.1
85°	40.0	57.2	93.8	109.8	114.4
87.5°	12.6	20.6	32.0	36.6	36.6
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	16.32	17.99	16.68	18.30	18.62	17.11	18.78	17.47	19.09	19.40
	3H	18.10	19.61	18.48	19.94	20.30	19.25	20.77	19.63	21.09	21.45
	4H	18.74	20.17	19.14	20.51	20.89	20.18	21.60	20.57	21.95	22.33
	6H	19.17	20.49	19.58	20.85	21.24	21.00	22.33	21.41	22.69	23.08
	8H	19.28	20.55	19.70	20.93	21.33	21.35	22.62	21.77	23.00	23.40
	12H	19.33	20.55	19.76	20.93	21.36	21.59	22.81	22.02	23.19	23.62
4H	2H	17.09	18.52	17.49	18.87	19.24	17.71	19.13	18.10	19.48	19.86
	3H	19.10	20.31	19.51	20.70	21.10	20.09	21.30	20.50	21.69	22.09
	4H	19.86	20.96	20.29	21.37	21.80	21.18	22.27	21.61	22.68	23.12
	6H	20.41	21.37	20.86	21.81	22.26	22.18	23.13	22.63	23.57	24.03
	8H	20.57	21.46	21.02	21.90	22.37	22.60	23.50	23.06	23.94	24.41
	12H	20.65	21.46	21.13	21.94	22.41	22.92	23.73	23.40	24.20	24.67
8H	4H	20.34	21.24	20.80	21.68	22.15	21.49	22.38	21.94	22.83	23.29
	6H	21.03	21.78	21.52	22.27	22.74	22.65	23.40	23.14	23.89	24.36
	8H	21.26	21.93	21.77	22.44	22.92	23.20	23.87	23.70	24.37	24.86
	12H	21.41	22.00	21.91	22.49	23.05	23.62	24.22	24.13	24.71	25.27
12H	4H	20.44	21.25	20.92	21.72	22.19	21.51	22.32	21.99	22.80	23.27
	6H	21.18	21.86	21.69	22.36	22.85	22.71	23.38	23.21	23.89	24.37
	8H	21.48	22.08	21.99	22.57	23.13	23.32	23.92	23.83	24.41	24.97