

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: P1587658

Luminaire Tested: 22CZSP-SB-37HE-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-37HE-L845-S
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

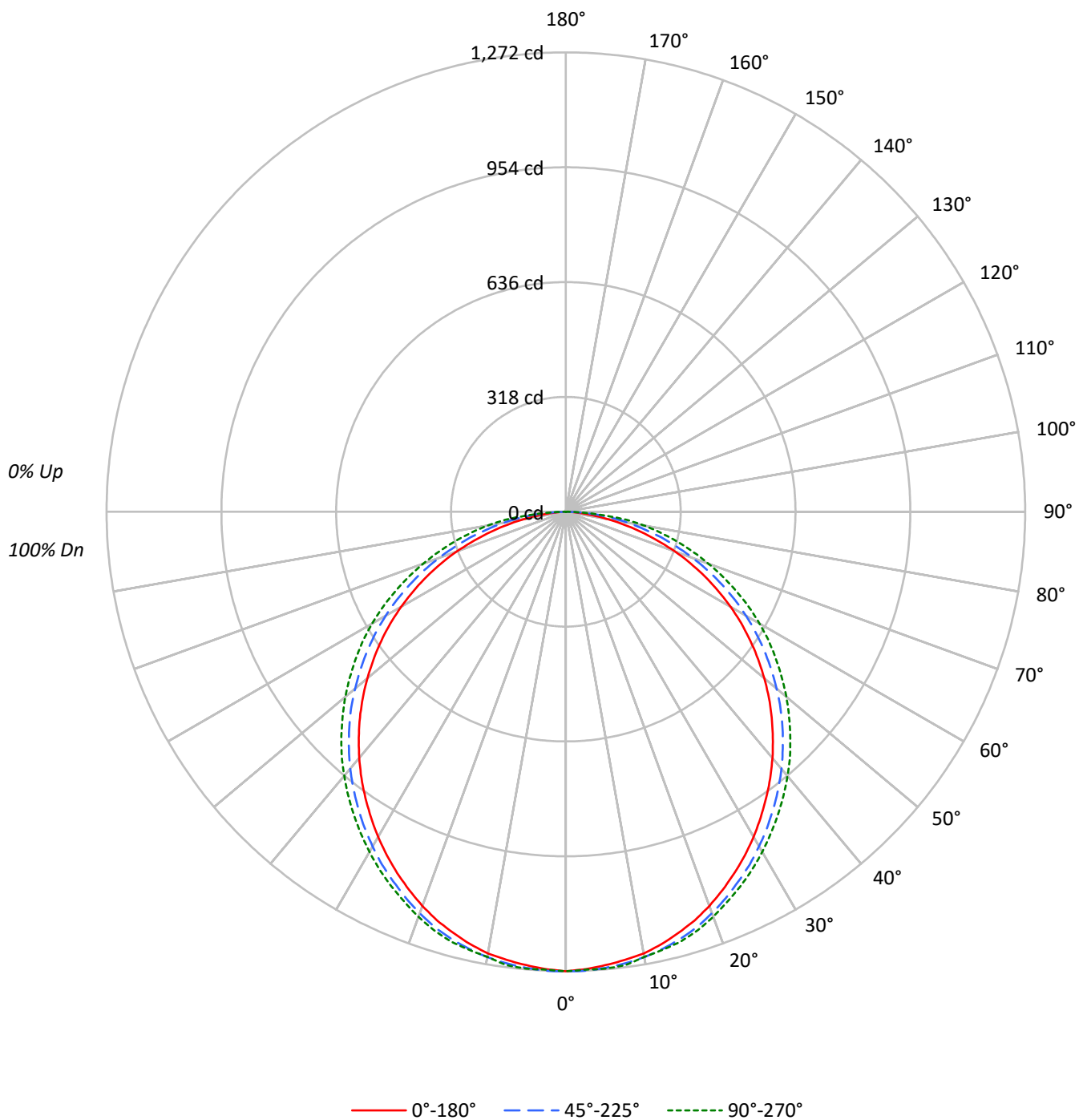
Lumens per Lamp: N/A
Luminaire Lumens: 3701.0 lumens
Efficiency: N/A
Efficacy: 153.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	106	101	97	93	97	94	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	66	61		69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53		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	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3984	3984	3984
5°	3961	3984	3992
10°	3949	3982	3980
15°	3913	3970	3993
20°	3871	3942	3977
25°	3815	3904	3953
30°	3760	3869	3932
35°	3698	3832	3914
40°	3638	3798	3902
45°	3571	3758	3893
50°	3494	3712	3883
55°	3408	3664	3877
60°	3301	3610	3879
65°	3150	3534	3858
70°	2945	3426	3849
75°	2611	3294	3863
80°	2124	3130	3976
85°	1372	2889	3431

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4030 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.4	3.3
10°-20°	344.8	9.3
20°-30°	519.8	14.0
30°-40°	625.5	16.9
40°-50°	652.4	17.6
50°-60°	598.0	16.2
60°-70°	469.6	12.7
70°-80°	285.8	7.7
80°-90°	84.5	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°	985.0	26.6
0°-40°	1610.5	43.5
0°-60°	2861.0	77.3
0°-90°	3701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3701.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1272	1272	1272	1272	1272	
5°	1260	1268	1268	1266	1270	120
15°	1207	1219	1224	1226	1232	341
25°	1104	1119	1130	1137	1144	509
35°	967	982	1002	1017	1024	605
45°	806	823	849	869	879	622
55°	624	640	671	698	710	558
65°	425	441	477	509	521	421
75°	216	236	272	305	319	229
85°	38	54	80	90	96	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1272.3	1272.3	1272.3	1272.3	1272.3
2.5°	1267.5	1273.9	1272.3	1266.7	1269.1
5°	1260.3	1268.3	1267.5	1265.9	1269.9
7.5°	1251.6	1260.3	1261.1	1261.1	1265.9
10°	1242.0	1250.8	1252.4	1250.0	1251.6
12.5°	1226.1	1236.4	1239.6	1239.6	1242.0
15°	1207.0	1218.9	1224.5	1226.1	1231.7
17.5°	1186.3	1199.0	1206.2	1210.2	1215.0
20°	1161.6	1175.1	1183.1	1187.9	1193.5
22.5°	1133.7	1148.9	1157.6	1162.4	1168.8
25°	1104.3	1119.4	1129.8	1136.9	1144.1
27.5°	1073.2	1087.6	1101.9	1110.7	1117.0
30°	1039.8	1054.9	1070.0	1081.2	1087.6
32.5°	1004.0	1019.9	1037.4	1049.3	1056.5
35°	967.3	982.5	1002.4	1016.7	1023.9
37.5°	929.9	945.8	966.5	981.7	990.4
40°	890.1	906.8	929.1	945.8	954.6
42.5°	848.7	864.6	889.3	908.4	918.8
45°	806.5	823.2	848.7	868.6	879.0
47.5°	762.7	778.7	806.5	829.6	838.4
50°	717.3	732.5	761.9	786.6	797.0
52.5°	671.2	687.1	716.6	742.8	754.0
55°	624.2	640.1	671.2	698.2	710.2
57.5°	576.4	592.3	624.2	652.1	666.4
60°	527.1	543.0	576.4	605.1	619.4
62.5°	476.1	492.8	527.1	556.5	571.6
65°	425.2	441.1	476.9	508.8	520.7
67.5°	374.2	390.1	425.2	457.0	471.3
70°	321.7	340.0	374.2	407.6	420.4
72.5°	266.7	287.4	321.7	356.7	369.4
75°	215.8	235.7	272.3	304.9	319.3
77.5°	165.6	187.1	221.3	254.8	269.1
80°	117.8	138.5	173.6	205.4	220.5
82.5°	74.8	93.2	128.2	156.8	168.0
85°	38.2	54.1	80.4	90.0	95.5
87.5°	11.1	19.1	28.7	35.8	39.8
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	16.30	17.96	16.67	18.28	18.59	17.04	18.70	17.40	19.01	19.33
	3H	18.07	19.58	18.45	19.90	20.26	19.12	20.62	19.49	20.95	21.31
	4H	18.69	20.11	19.09	20.46	20.83	19.98	21.40	20.38	21.75	22.12
	6H	19.10	20.42	19.51	20.78	21.17	20.73	22.04	21.14	22.41	22.80
	8H	19.20	20.46	19.63	20.85	21.25	21.02	22.28	21.45	22.67	23.07
	12H	19.25	20.46	19.68	20.84	21.27	21.21	22.42	21.64	22.80	23.23
4H	2H	17.07	18.49	17.47	18.84	19.21	17.64	19.06	18.04	19.41	19.78
	3H	19.06	20.26	19.47	20.65	21.05	19.95	21.15	20.36	21.55	21.95
	4H	19.80	20.89	20.23	21.30	21.74	20.97	22.06	21.40	22.47	22.90
	6H	20.33	21.28	20.79	21.72	22.18	21.88	22.83	22.33	23.27	23.72
	8H	20.47	21.36	20.93	21.81	22.27	22.25	23.13	22.70	23.58	24.04
	12H	20.56	21.36	21.03	21.83	22.30	22.50	23.30	22.98	23.77	24.24
8H	4H	20.25	21.14	20.71	21.58	22.04	21.27	22.16	21.73	22.60	23.07
	6H	20.91	21.65	21.40	22.14	22.62	22.33	23.07	22.82	23.56	24.03
	8H	21.12	21.79	21.63	22.29	22.78	22.80	23.47	23.31	23.97	24.46
	12H	21.26	21.85	21.76	22.34	22.90	23.15	23.74	23.66	24.23	24.79
12H	4H	20.33	21.13	20.81	21.61	22.07	21.30	22.10	21.78	22.57	23.04
	6H	21.04	21.70	21.54	22.21	22.69	22.38	23.05	22.89	23.55	24.04
	8H	21.31	21.90	21.82	22.39	22.95	22.92	23.51	23.42	24.00	24.55