

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: P1587639

Luminaire Tested: 22CZSP-SB-35-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-35-L845
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

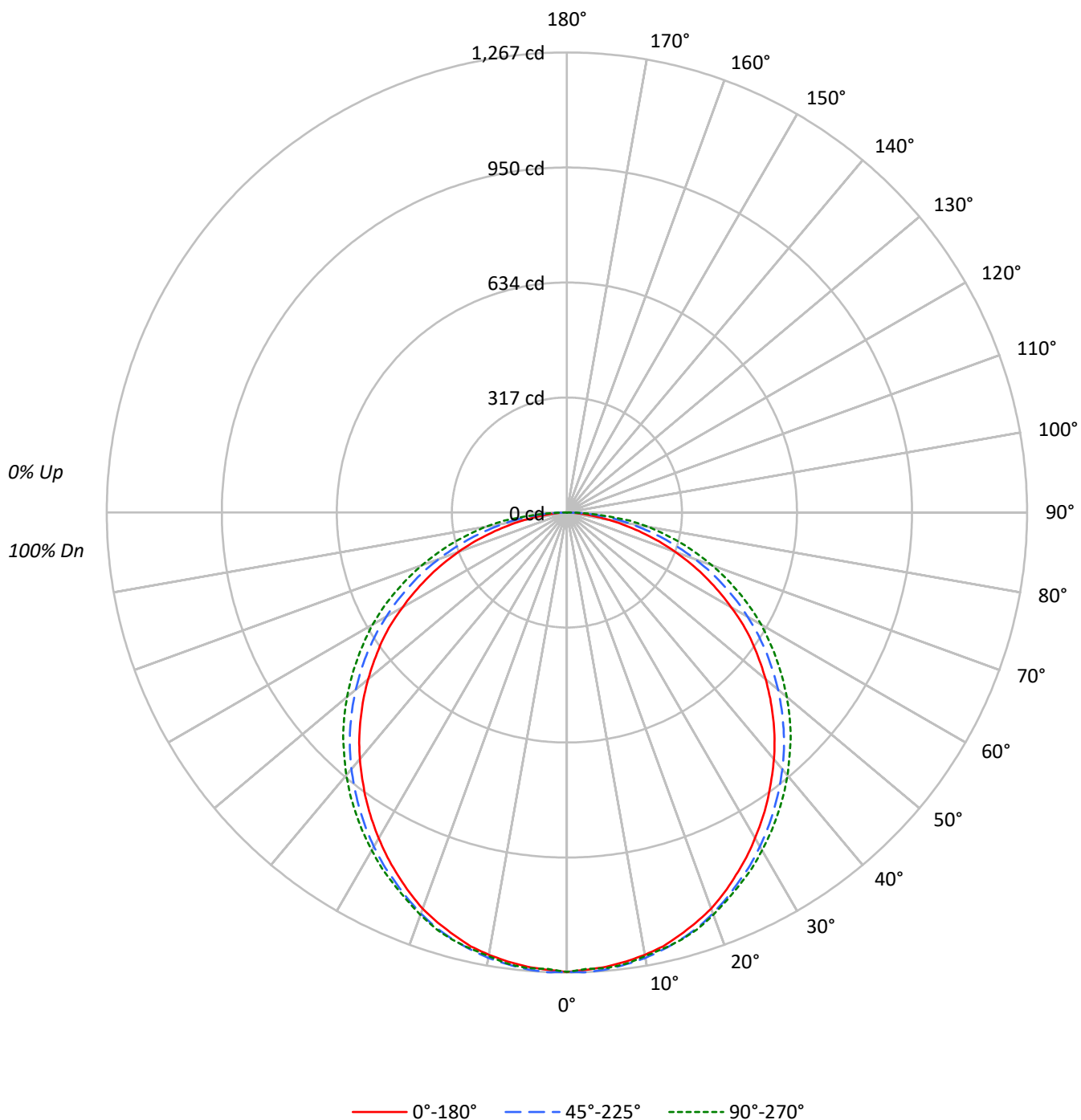
Lumens per Lamp: N/A
Luminaire Lumens: 3692.0 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
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	68
3	89	79	70	63	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°	3961	3961	3961
5°	3947	3969	3959
10°	3933	3961	3946
15°	3904	3944	3949
20°	3869	3916	3929
25°	3807	3874	3901
30°	3746	3842	3885
35°	3686	3805	3871
40°	3625	3772	3862
45°	3557	3737	3858
50°	3479	3696	3848
55°	3400	3656	3848
60°	3274	3602	3871
65°	3121	3532	3874
70°	2911	3434	3885
75°	2590	3309	3951
80°	2128	3170	4101
85°	1405	2975	3704

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4198 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	3.2
10°-20°	342.5	9.3
20°-30°	516.3	14.0
30°-40°	621.7	16.8
40°-50°	649.6	17.6
50°-60°	596.8	16.2
60°-70°	470.0	12.7
70°-80°	288.1	7.8
80°-90°	87.3	2.4
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°	978.5	26.5
0°-40°	1600.2	43.3
0°-60°	2846.6	77.1
0°-90°	3692.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3692.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1265	1265	1265	1265	1265	
5°	1256	1258	1263	1261	1260	119
15°	1204	1209	1217	1221	1218	340
25°	1102	1109	1121	1133	1129	508
35°	964	977	996	1014	1013	603
45°	803	820	844	867	871	620
55°	623	641	670	699	705	556
65°	421	443	477	509	523	416
75°	214	239	274	306	327	228
85°	39	58	83	92	103	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1265.1	1265.1	1265.1	1265.1	1265.1
2.5°	1260.4	1263.5	1267.4	1261.2	1258.1
5°	1255.7	1258.1	1262.8	1261.2	1259.6
7.5°	1247.1	1248.7	1254.9	1254.9	1253.4
10°	1237.0	1240.1	1245.6	1244.8	1240.9
12.5°	1223.7	1226.0	1232.3	1232.3	1229.9
15°	1204.2	1208.8	1216.7	1221.3	1218.2
17.5°	1183.8	1188.5	1198.7	1203.4	1201.8
20°	1161.2	1165.1	1175.2	1182.3	1179.1
22.5°	1133.0	1137.7	1149.5	1157.3	1154.1
25°	1101.8	1108.8	1121.3	1133.0	1129.1
27.5°	1070.5	1078.3	1094.0	1105.7	1104.1
30°	1036.1	1046.3	1062.7	1077.6	1074.4
32.5°	1001.0	1012.7	1029.9	1045.5	1044.7
35°	964.3	976.8	995.5	1013.5	1012.7
37.5°	925.2	940.0	959.6	979.1	979.9
40°	886.9	901.0	922.8	943.9	944.7
42.5°	846.3	861.1	884.6	906.4	907.2
45°	803.3	820.5	843.9	867.4	871.3
47.5°	759.5	777.5	801.7	826.7	831.4
50°	714.2	733.0	758.7	785.3	790.0
52.5°	668.1	687.6	714.2	740.8	747.8
55°	622.8	640.8	669.7	698.6	704.8
57.5°	575.1	591.5	622.8	653.3	661.1
60°	522.8	543.1	575.1	605.6	618.1
62.5°	472.0	493.9	526.7	557.1	571.2
65°	421.2	443.1	476.7	508.7	522.8
67.5°	369.6	392.3	428.2	458.7	474.3
70°	318.0	340.7	375.1	407.9	424.3
72.5°	266.5	290.7	324.3	357.9	374.3
75°	214.1	239.1	273.5	306.3	326.6
77.5°	164.9	189.1	223.5	257.1	274.3
80°	118.0	142.2	175.8	209.4	227.4
82.5°	75.0	97.7	130.5	158.6	175.0
85°	39.1	57.8	82.8	92.2	103.1
87.5°	11.7	22.7	32.0	35.9	44.5
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	16.66	18.27	18.59	17.04	18.71	17.41	19.02	19.33
	3H	18.06	19.57	18.44	19.89	20.25	19.14	20.65	19.51	20.97	21.33
	4H	18.68	20.11	19.08	20.45	20.83	20.02	21.45	20.42	21.79	22.17
	6H	19.10	20.42	19.51	20.78	21.17	20.79	22.11	21.20	22.47	22.86
	8H	19.20	20.46	19.63	20.85	21.25	21.10	22.36	21.52	22.75	23.15
	12H	19.25	20.46	19.68	20.85	21.27	21.31	22.52	21.74	22.91	23.33
4H	2H	17.07	18.49	17.46	18.84	19.21	17.65	19.07	18.04	19.42	19.79
	3H	19.06	20.26	19.47	20.65	21.05	19.97	21.17	20.38	21.57	21.97
	4H	19.81	20.90	20.24	21.31	21.75	21.01	22.10	21.44	22.51	22.94
	6H	20.35	21.30	20.80	21.74	22.20	21.94	22.89	22.39	23.33	23.79
	8H	20.50	21.39	20.96	21.83	22.30	22.32	23.22	22.78	23.66	24.12
	12H	20.58	21.39	21.06	21.86	22.33	22.60	23.40	23.08	23.88	24.35
8H	4H	20.27	21.16	20.72	21.60	22.06	21.31	22.20	21.77	22.64	23.11
	6H	20.94	21.69	21.44	22.17	22.65	22.39	23.14	22.89	23.62	24.10
	8H	21.16	21.83	21.67	22.34	22.82	22.88	23.55	23.39	24.05	24.54
	12H	21.31	21.90	21.82	22.39	22.95	23.26	23.85	23.76	24.34	24.90
12H	4H	20.35	21.15	20.83	21.63	22.10	21.34	22.14	21.82	22.61	23.08
	6H	21.07	21.74	21.58	22.25	22.73	22.45	23.12	22.95	23.62	24.11
	8H	21.36	21.95	21.87	22.44	23.00	23.00	23.59	23.50	24.08	24.64