

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: P1587641

Luminaire Tested: 22CZSP-SB-35-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587641
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-L850
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

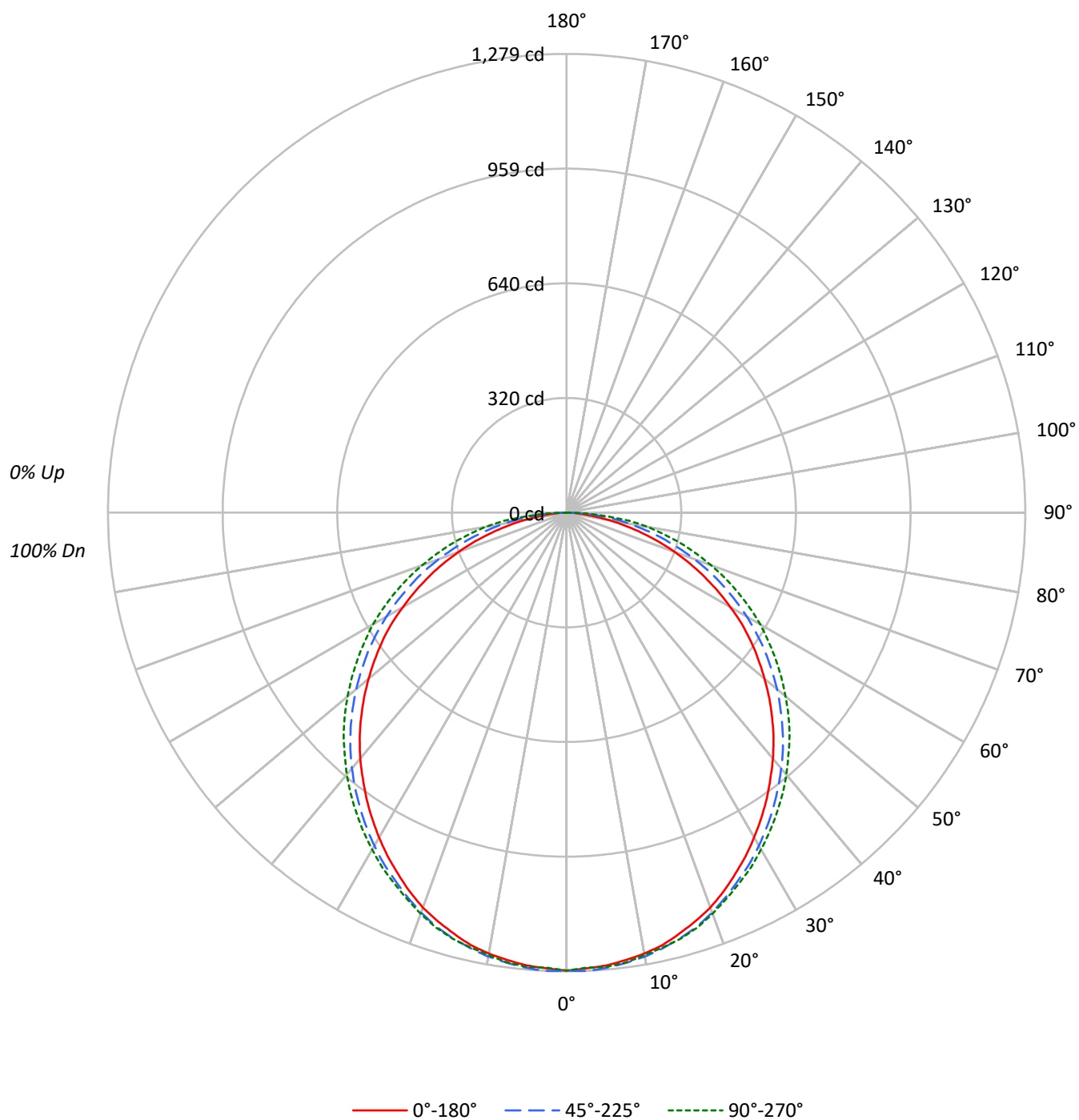
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3726.0 lumens
Efficiency: N/A
Efficacy: 150.9 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°	3998	3998	3998
5°	3983	4006	3996
10°	3969	3997	3982
15°	3939	3981	3985
20°	3905	3952	3965
25°	3842	3910	3937
30°	3781	3878	3921
35°	3720	3841	3907
40°	3659	3807	3897
45°	3590	3772	3894
50°	3511	3730	3884
55°	3431	3689	3883
60°	3304	3635	3907
65°	3150	3564	3909
70°	2939	3465	3920
75°	2614	3339	3988
80°	2148	3199	4138
85°	1416	3004	3740

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4237 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	3.2
10°-20°	345.7	9.3
20°-30°	521.0	14.0
30°-40°	627.5	16.8
40°-50°	655.5	17.6
50°-60°	602.3	16.2
60°-70°	474.3	12.7
70°-80°	290.8	7.8
80°-90°	88.2	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°	987.5	26.5
0°-40°	1615.0	43.3
0°-60°	2872.8	77.1
0°-90°	3726.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3726.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1277	1277	1277	1277	1277	
5°	1267	1270	1274	1273	1271	120
15°	1215	1220	1228	1233	1229	343
25°	1112	1119	1132	1144	1140	513
35°	973	986	1005	1023	1022	609
45°	811	828	852	875	879	625
55°	628	647	676	705	711	561
65°	425	447	481	513	528	420
75°	216	241	276	309	330	230
85°	39	58	84	93	104	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1276.8	1276.8	1276.8	1276.8	1276.8
2.5°	1272.0	1275.2	1279.1	1272.8	1269.7
5°	1267.3	1269.7	1274.4	1272.8	1271.2
7.5°	1258.6	1260.2	1266.5	1266.5	1264.9
10°	1248.4	1251.5	1257.0	1256.2	1252.3
12.5°	1235.0	1237.3	1243.6	1243.6	1241.3
15°	1215.2	1220.0	1227.9	1232.6	1229.4
17.5°	1194.7	1199.5	1209.7	1214.5	1212.9
20°	1171.9	1175.8	1186.1	1193.2	1190.0
22.5°	1143.5	1148.2	1160.0	1167.9	1164.8
25°	1111.9	1119.0	1131.6	1143.5	1139.5
27.5°	1080.4	1088.3	1104.0	1115.9	1114.3
30°	1045.7	1055.9	1072.5	1087.5	1084.3
32.5°	1010.2	1022.0	1039.4	1055.2	1054.4
35°	973.1	985.8	1004.7	1022.8	1022.0
37.5°	933.7	948.7	968.4	988.1	988.9
40°	895.1	909.3	931.3	952.6	953.4
42.5°	854.1	869.0	892.7	914.8	915.6
45°	810.7	828.0	851.7	875.4	879.3
47.5°	766.5	784.7	809.1	834.3	839.1
50°	720.8	739.7	765.7	792.5	797.3
52.5°	674.3	694.0	720.8	747.6	754.7
55°	628.5	646.7	675.8	705.0	711.3
57.5°	580.4	597.0	628.5	659.3	667.2
60°	527.6	548.1	580.4	611.2	623.8
62.5°	476.3	498.4	531.5	562.3	576.5
65°	425.1	447.1	481.0	513.4	527.6
67.5°	373.0	395.9	432.2	462.9	478.7
70°	321.0	343.8	378.5	411.7	428.2
72.5°	268.9	293.4	327.3	361.2	377.7
75°	216.1	241.3	276.0	309.1	329.6
77.5°	166.4	190.8	225.5	259.5	276.8
80°	119.1	143.5	177.4	211.3	229.5
82.5°	75.7	98.6	131.7	160.1	176.6
85°	39.4	58.4	83.6	93.1	104.1
87.5°	11.8	22.9	32.3	36.3	45.0
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	16.33	17.99	16.69	18.31	18.62	17.07	18.74	17.44	19.05	19.37
	3H	18.09	19.60	18.47	19.92	20.28	19.17	20.68	19.55	21.00	21.36
	4H	18.72	20.14	19.11	20.49	20.86	20.05	21.48	20.45	21.82	22.20
	6H	19.13	20.45	19.54	20.81	21.20	20.82	22.14	21.23	22.51	22.90
	8H	19.23	20.50	19.66	20.89	21.28	21.13	22.40	21.56	22.78	23.18
	12H	19.29	20.50	19.71	20.88	21.31	21.35	22.56	21.77	22.94	23.37
4H	2H	17.10	18.52	17.50	18.87	19.24	17.68	19.10	18.08	19.45	19.82
	3H	19.09	20.29	19.50	20.69	21.09	20.01	21.20	20.42	21.60	22.00
	4H	19.85	20.93	20.28	21.34	21.78	21.04	22.13	21.47	22.54	22.97
	6H	20.38	21.33	20.83	21.77	22.23	21.97	22.92	22.42	23.36	23.82
	8H	20.53	21.42	20.99	21.86	22.33	22.36	23.25	22.81	23.69	24.15
	12H	20.62	21.42	21.09	21.89	22.36	22.63	23.43	23.11	23.91	24.38
8H	4H	20.30	21.19	20.76	21.63	22.10	21.34	22.23	21.80	22.67	23.14
	6H	20.98	21.72	21.47	22.21	22.68	22.42	23.17	22.92	23.66	24.13
	8H	21.20	21.86	21.70	22.37	22.85	22.91	23.58	23.42	24.09	24.57
	12H	21.34	21.94	21.85	22.42	22.98	23.29	23.88	23.79	24.37	24.93
12H	4H	20.38	21.18	20.86	21.66	22.13	21.37	22.17	21.85	22.65	23.11
	6H	21.10	21.77	21.61	22.28	22.76	22.48	23.15	22.98	23.65	24.14
	8H	21.39	21.99	21.90	22.48	23.03	23.03	23.62	23.54	24.11	24.67