

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: P1587636

Luminaire Tested: 22CZSP-SB-35-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587636
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-35-L840-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

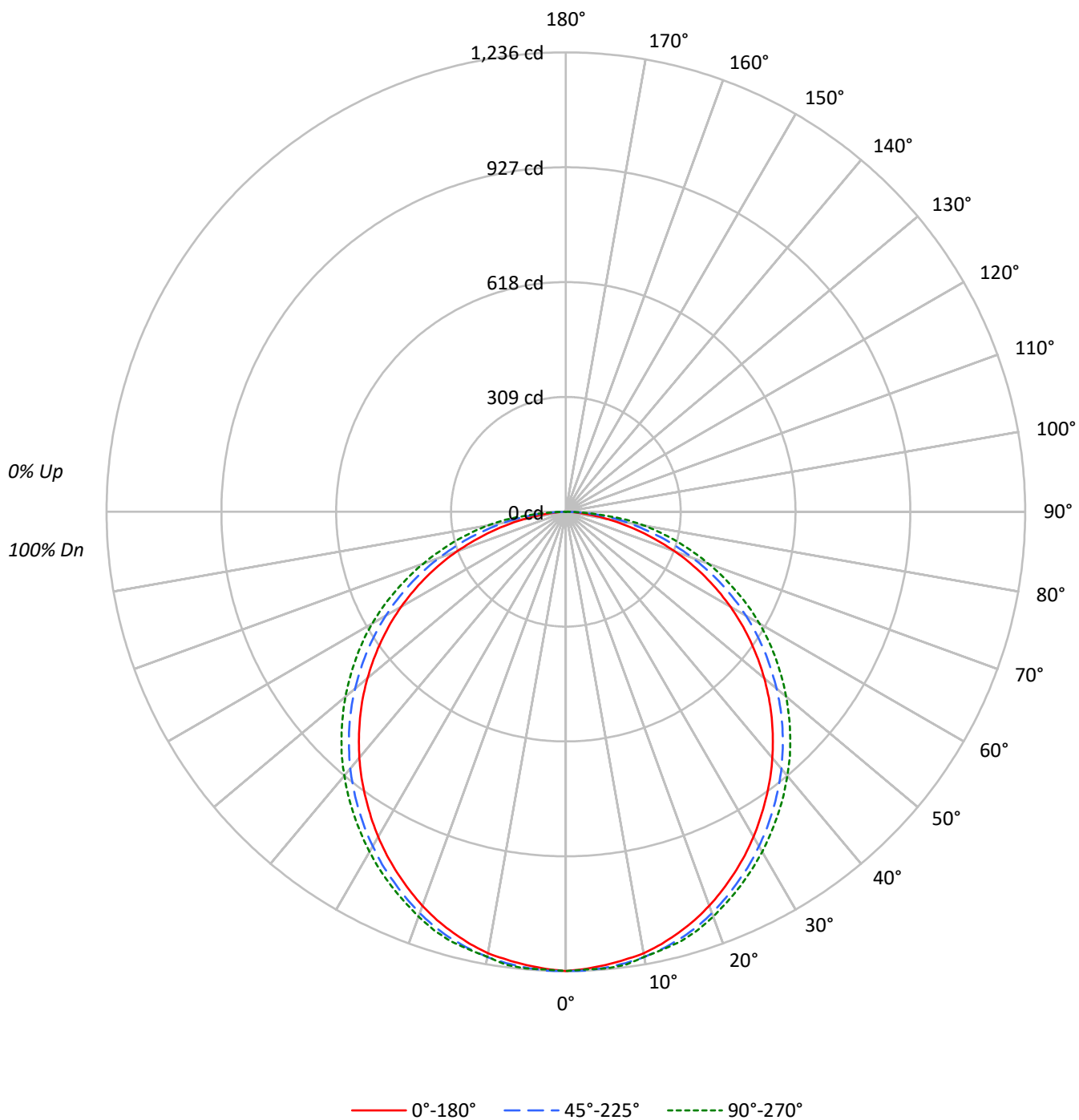
Lumens per Lamp: N/A
Luminaire Lumens: 3595.0 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	94	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	45	39		50
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3870	3870	3870
5°	3848	3870	3877
10°	3836	3868	3865
15°	3801	3856	3878
20°	3760	3829	3863
25°	3706	3792	3840
30°	3652	3758	3820
35°	3592	3722	3802
40°	3534	3689	3790
45°	3469	3651	3781
50°	3394	3605	3771
55°	3310	3559	3766
60°	3206	3506	3768
65°	3060	3432	3748
70°	2860	3328	3738
75°	2536	3200	3752
80°	2065	3040	3863
85°	1333	2806	3334

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3915 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	3.3
10°-20°	334.9	9.3
20°-30°	505.0	14.0
30°-40°	607.6	16.9
40°-50°	633.8	17.6
50°-60°	580.9	16.2
60°-70°	456.2	12.7
70°-80°	277.6	7.7
80°-90°	82.1	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°	956.8	26.6
0°-40°	1564.4	43.5
0°-60°	2779.1	77.3
0°-90°	3595.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3595.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1236	1236	1236	1236	1236	
5°	1224	1232	1231	1230	1234	116
15°	1172	1184	1189	1191	1196	331
25°	1073	1087	1097	1104	1111	494
35°	940	954	974	988	994	588
45°	783	800	824	844	854	604
55°	606	622	652	678	690	542
65°	413	428	463	494	506	408
75°	210	229	264	296	310	222
85°	37	53	78	87	93	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1235.8	1235.8	1235.8	1235.8	1235.8
2.5°	1231.2	1237.4	1235.8	1230.4	1232.7
5°	1224.2	1232.0	1231.2	1229.6	1233.5
7.5°	1215.7	1224.2	1225.0	1225.0	1229.6
10°	1206.4	1215.0	1216.5	1214.2	1215.7
12.5°	1191.0	1201.0	1204.1	1204.1	1206.4
15°	1172.4	1184.0	1189.4	1191.0	1196.4
17.5°	1152.3	1164.7	1171.6	1175.5	1180.2
20°	1128.3	1141.5	1149.2	1153.9	1159.3
22.5°	1101.3	1116.0	1124.5	1129.1	1135.3
25°	1072.7	1087.4	1097.4	1104.4	1111.3
27.5°	1042.5	1056.4	1070.3	1078.8	1085.0
30°	1010.0	1024.7	1039.4	1050.2	1056.4
32.5°	975.2	990.7	1007.7	1019.3	1026.3
35°	939.6	954.3	973.7	987.6	994.5
37.5°	903.3	918.8	938.9	953.6	962.1
40°	864.6	880.9	902.5	918.8	927.3
42.5°	824.4	839.9	863.8	882.4	892.5
45°	783.4	799.7	824.4	843.7	853.8
47.5°	740.9	756.4	783.4	805.8	814.4
50°	696.8	711.5	740.1	764.1	774.1
52.5°	651.9	667.4	696.0	721.5	732.4
55°	606.3	621.8	651.9	678.2	689.8
57.5°	559.9	575.4	606.3	633.4	647.3
60°	512.0	527.4	559.9	587.8	601.7
62.5°	462.5	478.7	512.0	540.6	555.3
65°	413.0	428.4	463.2	494.2	505.8
67.5°	363.5	378.9	413.0	443.9	457.8
70°	312.4	330.2	363.5	396.0	408.3
72.5°	259.1	279.2	312.4	346.5	358.8
75°	209.6	228.9	264.5	296.2	310.1
77.5°	160.9	181.7	215.0	247.5	261.4
80°	114.5	134.6	168.6	199.5	214.2
82.5°	72.7	90.5	124.5	152.4	163.2
85°	37.1	52.6	78.1	87.4	92.8
87.5°	10.8	18.6	27.8	34.8	38.7
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	16.20	17.86	16.57	18.18	18.49	16.94	18.60	17.30	18.91	19.22
	3H	17.97	19.47	18.35	19.80	20.16	19.02	20.52	19.39	20.85	21.21
	4H	18.59	20.01	18.99	20.36	20.73	19.88	21.30	20.28	21.65	22.02
	6H	19.00	20.32	19.41	20.68	21.07	20.63	21.94	21.04	22.31	22.70
	8H	19.10	20.36	19.52	20.75	21.15	20.92	22.18	21.34	22.57	22.97
	12H	19.15	20.36	19.58	20.74	21.17	21.11	22.32	21.54	22.70	23.13
4H	2H	16.97	18.39	17.37	18.74	19.11	17.54	18.96	17.94	19.31	19.68
	3H	18.96	20.16	19.37	20.55	20.95	19.85	21.05	20.26	21.45	21.85
	4H	19.70	20.79	20.13	21.20	21.63	20.87	21.96	21.30	22.37	22.80
	6H	20.23	21.18	20.68	21.62	22.07	21.78	22.73	22.23	23.17	23.62
	8H	20.37	21.26	20.83	21.70	22.17	22.14	23.03	22.60	23.48	23.94
	12H	20.45	21.26	20.93	21.73	22.20	22.40	23.20	22.88	23.67	24.14
8H	4H	20.15	21.04	20.61	21.48	21.94	21.17	22.06	21.63	22.50	22.96
	6H	20.81	21.55	21.30	22.04	22.51	22.23	22.97	22.72	23.46	23.93
	8H	21.02	21.69	21.53	22.19	22.68	22.70	23.37	23.21	23.87	24.36
	12H	21.16	21.75	21.66	22.24	22.80	23.05	23.64	23.56	24.13	24.69
12H	4H	20.23	21.03	20.71	21.50	21.97	21.20	22.00	21.67	22.47	22.94
	6H	20.94	21.60	21.44	22.11	22.59	22.28	22.95	22.79	23.45	23.94
	8H	21.21	21.80	21.72	22.29	22.85	22.82	23.41	23.32	23.90	24.45