

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: P1586596

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-A-35-L840-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

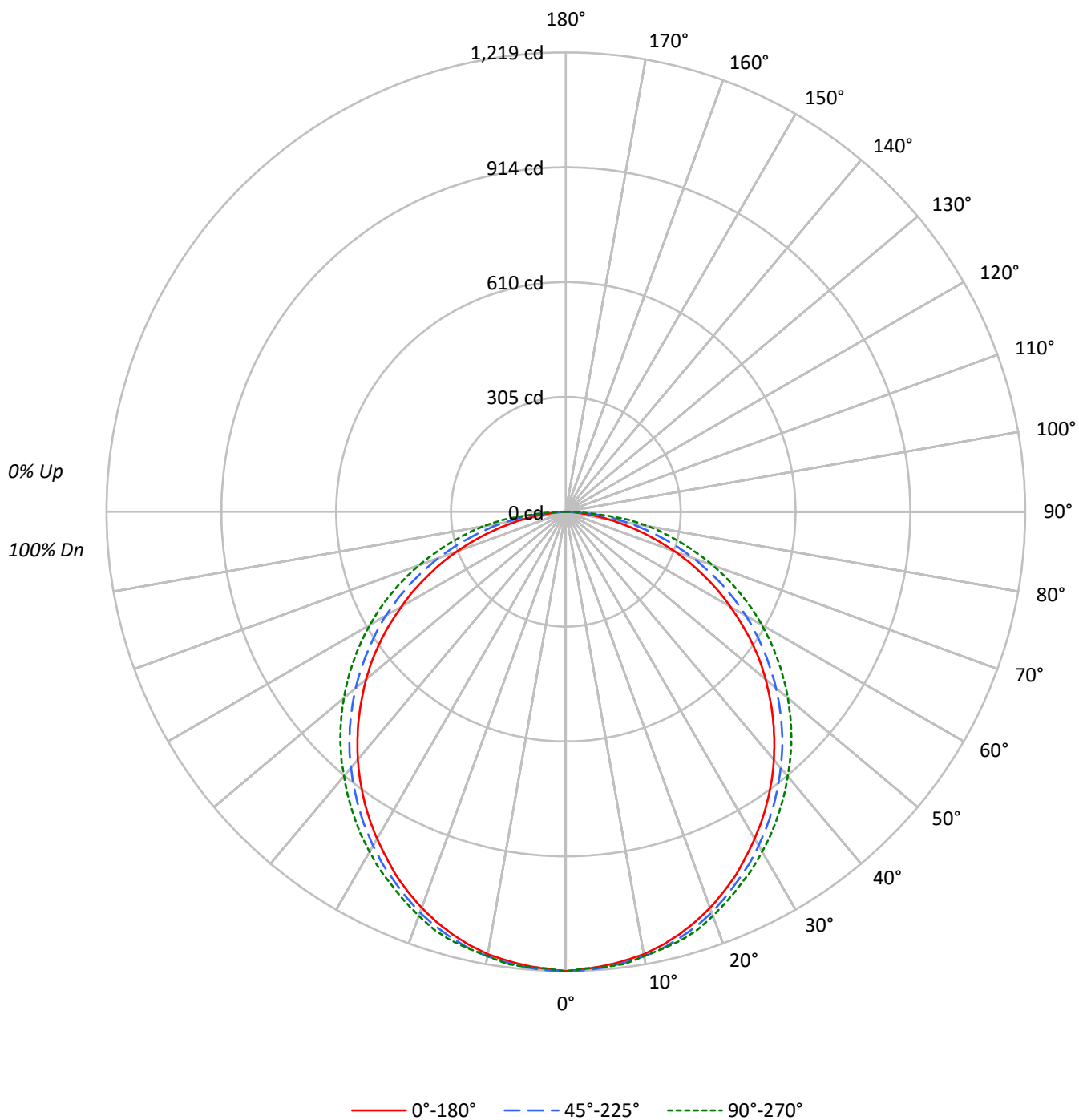
Lumens per Lamp: N/A
Luminaire Lumens: 3559.0 lumens
Efficiency: N/A
Efficacy: 144.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
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	69		
3	89	79	70	64	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°	3817	3817	3817
5°	3800	3815	3812
10°	3792	3809	3807
15°	3765	3795	3818
20°	3726	3771	3802
25°	3680	3731	3777
30°	3623	3699	3767
35°	3570	3663	3755
40°	3511	3627	3744
45°	3444	3590	3749
50°	3371	3545	3747
55°	3283	3496	3752
60°	3160	3458	3761
65°	3015	3391	3773
70°	2810	3296	3789
75°	2503	3165	3827
80°	2070	3013	4014
85°	1347	2723	3507

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4141 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	3.2
10°-20°	330.1	9.3
20°-30°	497.9	14.0
30°-40°	599.7	16.8
40°-50°	626.3	17.6
50°-60°	575.2	16.2
60°-70°	453.0	12.7
70°-80°	277.9	7.8
80°-90°	83.6	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°	943.3	26.5
0°-40°	1543.0	43.4
0°-60°	2744.4	77.1
0°-90°	3559.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3559.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1219	1219	1219	1219	1219	
5°	1209	1210	1214	1218	1213	115
15°	1161	1164	1171	1178	1178	327
25°	1065	1068	1080	1093	1093	490
35°	934	939	958	978	982	584
45°	778	786	811	839	846	600
55°	601	612	640	676	687	537
65°	407	421	458	496	509	403
75°	207	223	262	303	316	219
85°	38	52	76	96	98	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1219.1	1219.1	1219.1	1219.1	1219.1
2.5°	1214.4	1216.7	1217.5	1218.3	1212.8
5°	1208.9	1210.5	1213.6	1217.5	1212.8
7.5°	1201.1	1202.7	1206.6	1212.0	1209.7
10°	1192.5	1193.3	1198.0	1201.9	1197.2
12.5°	1178.4	1180.8	1186.3	1189.4	1187.8
15°	1161.3	1163.6	1170.6	1177.7	1177.7
17.5°	1141.0	1144.1	1152.7	1162.0	1162.8
20°	1118.3	1120.7	1131.6	1141.0	1141.0
22.5°	1092.5	1095.7	1106.6	1116.7	1118.3
25°	1065.2	1067.5	1080.0	1093.3	1093.3
27.5°	1033.2	1037.9	1053.5	1066.8	1069.9
30°	1002.0	1005.9	1023.0	1039.4	1041.8
32.5°	969.2	973.8	991.8	1009.8	1013.7
35°	934.0	938.7	958.2	977.7	982.4
37.5°	897.3	902.8	923.1	945.7	950.4
40°	859.0	865.3	887.2	911.4	916.0
42.5°	818.4	827.0	850.4	875.4	882.5
45°	777.8	786.4	810.6	838.7	846.5
47.5°	734.9	745.0	770.0	799.7	808.3
50°	691.9	702.1	727.8	759.9	769.2
52.5°	648.2	658.3	684.9	718.5	728.6
55°	601.3	612.3	640.4	676.3	687.2
57.5°	552.9	567.0	596.6	633.3	644.3
60°	504.5	518.5	552.1	588.1	600.5
62.5°	456.9	470.1	504.5	542.8	556.0
65°	406.9	420.9	457.6	495.9	509.2
67.5°	357.7	371.7	408.4	448.3	462.3
70°	306.9	322.5	360.0	399.8	413.9
72.5°	256.1	272.5	310.8	351.4	364.7
75°	206.9	223.3	261.6	303.0	316.3
77.5°	158.5	176.5	214.0	256.1	268.6
80°	114.8	132.0	167.1	208.5	222.6
82.5°	73.4	88.2	123.4	162.4	172.6
85°	37.5	51.5	75.8	96.1	97.6
87.5°	11.7	16.4	25.0	37.5	38.3
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	16.13	17.79	16.50	18.11	18.42	16.96	18.62	17.33	18.94	19.25
	3H	17.89	19.40	18.26	19.72	20.08	19.08	20.59	19.45	20.91	21.27
	4H	18.51	19.93	18.90	20.28	20.65	19.97	21.39	20.37	21.74	22.11
	6H	18.92	20.24	19.33	20.60	20.99	20.75	22.07	21.16	22.43	22.82
	8H	19.02	20.29	19.45	20.68	21.07	21.07	22.33	21.49	22.72	23.12
	12H	19.08	20.29	19.51	20.67	21.10	21.28	22.49	21.71	22.87	23.30
4H	2H	16.90	18.33	17.30	18.67	19.05	17.55	18.97	17.95	19.32	19.69
	3H	18.88	20.08	19.29	20.48	20.87	19.90	21.10	20.31	21.50	21.90
	4H	19.62	20.70	20.05	21.12	21.55	20.96	22.04	21.39	22.46	22.89
	6H	20.15	21.10	20.60	21.54	21.99	21.91	22.86	22.36	23.30	23.76
	8H	20.29	21.18	20.75	21.63	22.09	22.31	23.20	22.77	23.64	24.10
	12H	20.38	21.18	20.86	21.65	22.12	22.58	23.39	23.06	23.86	24.33
8H	4H	20.08	20.97	20.54	21.41	21.87	21.25	22.14	21.71	22.58	23.04
	6H	20.74	21.48	21.23	21.97	22.44	22.36	23.10	22.85	23.59	24.06
	8H	20.95	21.62	21.46	22.12	22.61	22.87	23.54	23.38	24.04	24.53
	12H	21.09	21.68	21.59	22.17	22.73	23.26	23.85	23.76	24.34	24.90
12H	4H	20.17	20.97	20.64	21.44	21.91	21.27	22.07	21.75	22.55	23.02
	6H	20.87	21.54	21.38	22.04	22.53	22.40	23.07	22.91	23.58	24.06
	8H	21.15	21.74	21.65	22.23	22.79	22.98	23.58	23.49	24.06	24.62