

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: P1586599

Luminaire Tested: 22CZSP-A-35-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-772-10)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-A-35-L845
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

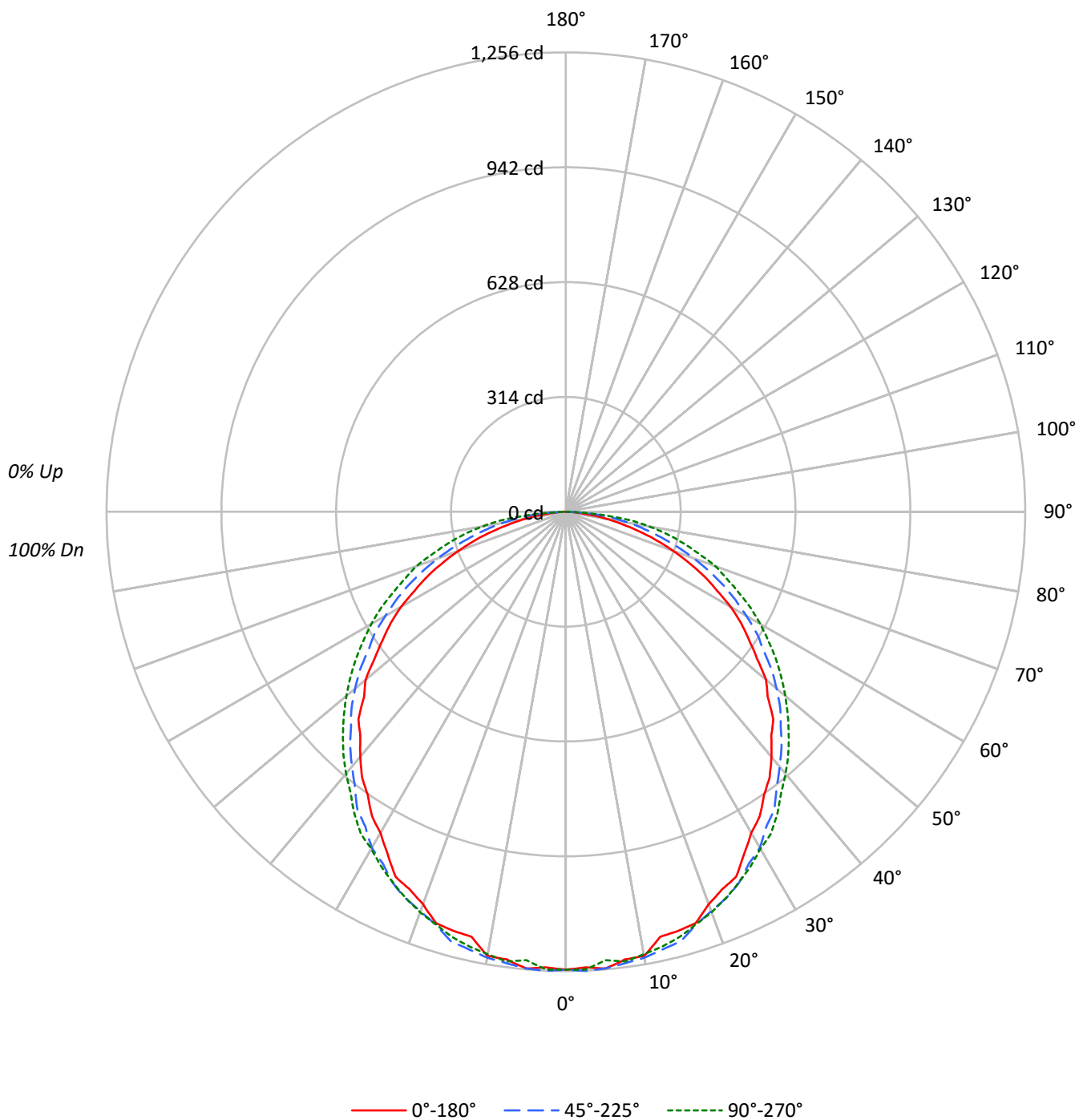
Lumens per Lamp: N/A
Luminaire Lumens: 3655.0 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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			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	31	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°	3920	3920	3920
5°	3940	3940	3869
10°	3921	3936	3906
15°	3846	3939	3901
20°	3805	3873	3883
25°	3805	3870	3864
30°	3667	3836	3847
35°	3611	3799	3853
40°	3575	3718	3820
45°	3552	3680	3818
50°	3482	3664	3816
55°	3341	3596	3825
60°	3261	3568	3847
65°	3096	3517	3858
70°	2855	3404	3989
75°	2537	3253	4026
80°	2108	3190	4175
85°	1290	2856	3528

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4321 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.7	3.2
10°-20°	339.2	9.3
20°-30°	511.6	14.0
30°-40°	614.5	16.8
40°-50°	641.5	17.6
50°-60°	590.7	16.2
60°-70°	466.4	12.8
70°-80°	287.2	7.9
80°-90°	85.1	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°	969.6	26.5
0°-40°	1584.1	43.3
0°-60°	2816.2	77.1
0°-90°	3655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3655.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1252	1252	1252	1252	1252	
5°	1253	1241	1253	1255	1231	118
15°	1186	1203	1215	1210	1204	335
25°	1101	1109	1120	1115	1118	502
35°	945	962	994	998	1008	594
45°	802	808	831	849	862	613
55°	612	628	659	688	701	549
65°	418	433	475	509	521	411
75°	210	230	269	312	333	222
85°	36	51	80	94	98	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1251.8	1251.8	1251.8	1251.8	1251.8
2.5°	1247.2	1260.4	1256.5	1258.9	1252.6
5°	1253.4	1240.9	1253.4	1255.0	1230.8
7.5°	1234.7	1236.2	1244.8	1247.2	1240.1
10°	1233.1	1237.8	1237.8	1230.0	1228.5
12.5°	1190.3	1213.6	1225.3	1230.8	1217.5
15°	1186.4	1202.7	1215.2	1209.7	1203.5
17.5°	1179.3	1174.7	1183.2	1189.5	1182.5
20°	1141.9	1149.7	1162.2	1163.8	1165.3
22.5°	1117.0	1119.3	1144.3	1146.6	1143.5
25°	1101.4	1109.2	1120.1	1115.4	1118.5
27.5°	1055.4	1074.1	1084.2	1093.6	1093.6
30°	1014.1	1035.9	1060.9	1064.0	1064.0
32.5°	986.8	1001.6	1020.3	1026.6	1043.7
35°	944.7	961.9	993.8	998.5	1007.9
37.5°	915.1	932.3	947.1	963.4	967.3
40°	874.6	892.5	909.6	928.4	934.6
42.5°	831.7	850.4	873.0	892.5	900.3
45°	802.1	808.3	830.9	848.8	862.1
47.5°	748.3	766.2	795.1	817.7	823.1
50°	714.8	721.8	752.2	782.6	783.4
52.5°	658.7	679.7	709.3	738.2	742.1
55°	611.9	628.3	658.7	688.3	700.7
57.5°	568.2	580.7	619.7	649.3	656.3
60°	520.7	533.9	569.8	604.1	614.2
62.5°	465.3	484.1	523.0	555.8	569.8
65°	417.8	432.6	474.7	509.0	520.7
67.5°	364.0	384.3	424.0	462.2	474.7
70°	311.8	332.1	371.8	411.6	435.7
72.5°	260.3	281.4	321.1	367.1	380.4
75°	209.7	229.9	268.9	311.8	332.8
77.5°	159.8	181.6	221.4	264.2	284.5
80°	116.9	134.1	176.9	214.4	231.5
82.5°	72.5	90.4	130.2	165.2	180.1
85°	35.9	51.4	79.5	94.3	98.2
87.5°	10.9	16.4	24.9	32.7	37.4
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	16.21	17.87	16.58	18.19	18.50	17.04	18.70	17.40	19.01	19.33
	3H	17.97	19.47	18.34	19.80	20.16	19.18	20.69	19.56	21.02	21.38
	4H	18.58	20.00	18.98	20.35	20.72	20.10	21.52	20.49	21.87	22.24
	6H	18.98	20.30	19.39	20.67	21.06	20.90	22.22	21.31	22.58	22.97
	8H	19.09	20.35	19.51	20.74	21.13	21.22	22.48	21.64	22.87	23.27
	12H	19.13	20.34	19.56	20.72	21.15	21.43	22.64	21.85	23.02	23.45
4H	2H	17.00	18.43	17.40	18.77	19.15	17.64	19.06	18.04	19.41	19.79
	3H	18.98	20.18	19.39	20.57	20.97	20.02	21.22	20.43	21.62	22.02
	4H	19.71	20.80	20.14	21.21	21.64	21.09	22.17	21.52	22.59	23.02
	6H	20.23	21.18	20.68	21.62	22.07	22.05	23.01	22.51	23.45	23.90
	8H	20.37	21.26	20.83	21.70	22.17	22.45	23.34	22.91	23.79	24.25
	12H	20.45	21.25	20.92	21.72	22.19	22.72	23.52	23.20	24.00	24.47
8H	4H	20.17	21.07	20.63	21.51	21.97	21.38	22.27	21.84	22.71	23.17
	6H	20.83	21.57	21.32	22.06	22.53	22.50	23.25	22.99	23.73	24.21
	8H	21.04	21.70	21.54	22.21	22.69	23.01	23.68	23.52	24.18	24.67
	12H	21.16	21.76	21.67	22.25	22.80	23.38	23.97	23.88	24.46	25.02
12H	4H	20.27	21.07	20.75	21.54	22.01	21.40	22.21	21.88	22.68	23.15
	6H	20.97	21.64	21.47	22.14	22.63	22.55	23.22	23.06	23.73	24.21
	8H	21.24	21.83	21.75	22.32	22.88	23.12	23.72	23.63	24.21	24.76