

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: P1586601

Luminaire Tested: 22CZSP-A-35-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586601
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-L850
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

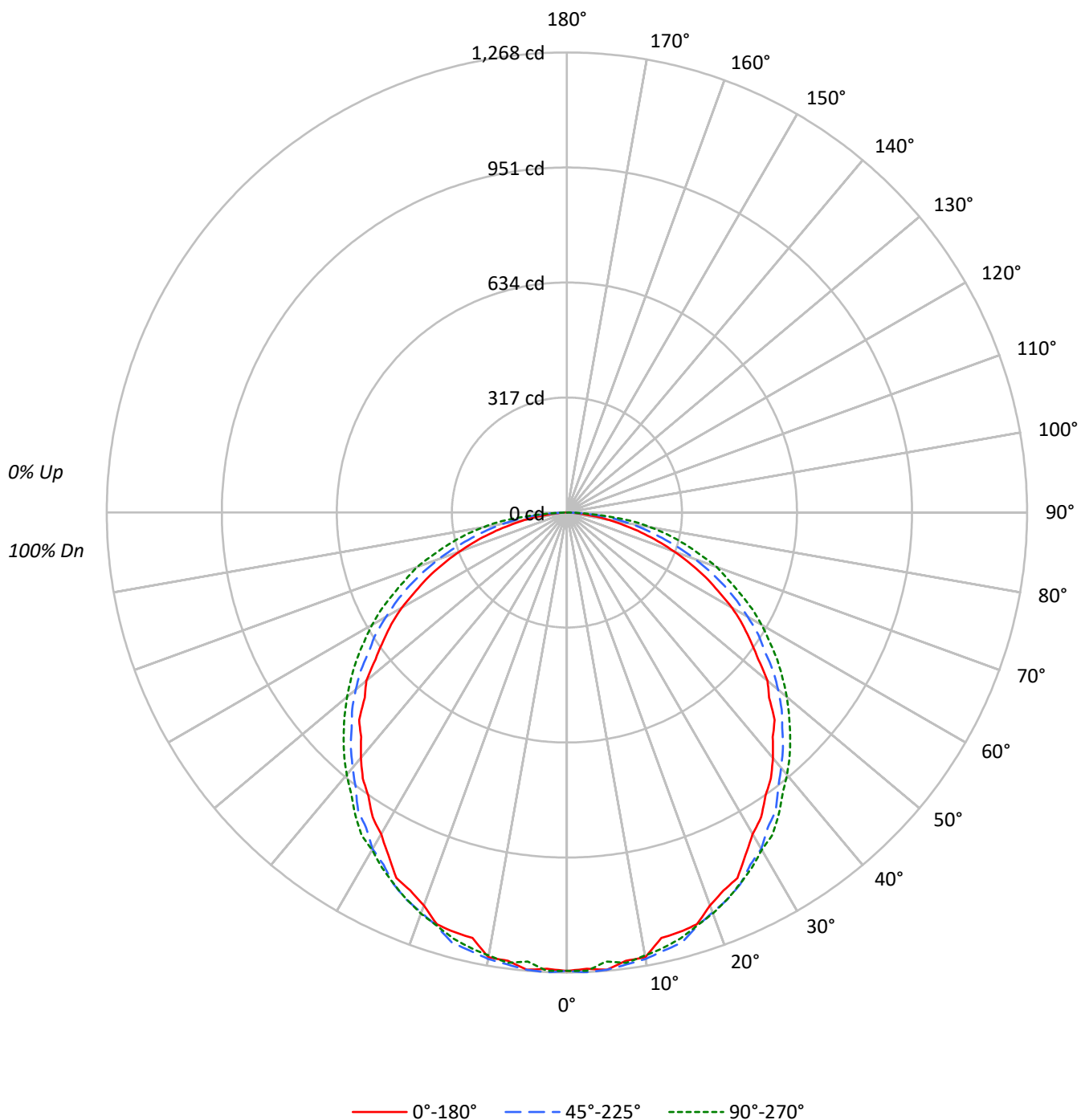
Lumens per Lamp: N/A
Luminaire Lumens: 3689.0 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	3956	3956	3956
5°	3977	3977	3905
10°	3957	3972	3942
15°	3882	3976	3938
20°	3841	3909	3919
25°	3841	3906	3901
30°	3701	3871	3883
35°	3645	3834	3888
40°	3608	3753	3856
45°	3585	3714	3853
50°	3514	3698	3852
55°	3372	3629	3861
60°	3291	3602	3882
65°	3125	3550	3894
70°	2881	3436	4027
75°	2560	3284	4064
80°	2128	3221	4214
85°	1301	2881	3560

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4359 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	3.2
10°-20°	342.4	9.3
20°-30°	516.4	14.0
30°-40°	620.2	16.8
40°-50°	647.4	17.6
50°-60°	596.1	16.2
60°-70°	470.8	12.8
70°-80°	289.9	7.9
80°-90°	85.9	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°	978.6	26.5
0°-40°	1598.8	43.3
0°-60°	2842.4	77.1
0°-90°	3689.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3689.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1264	1264	1264	1264	1264	
5°	1265	1252	1265	1267	1242	120
15°	1197	1214	1226	1221	1215	338
25°	1112	1120	1130	1126	1129	507
35°	954	971	1003	1008	1017	599
45°	810	816	839	857	870	619
55°	618	634	665	695	707	554
65°	422	437	479	514	526	415
75°	212	232	271	315	336	225
85°	36	52	80	95	99	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1263.5	1263.5	1263.5	1263.5	1263.5
2.5°	1258.8	1272.1	1268.2	1270.6	1264.3
5°	1265.1	1252.5	1265.1	1266.6	1242.2
7.5°	1246.2	1247.7	1256.4	1258.8	1251.7
10°	1244.6	1249.3	1249.3	1241.5	1239.9
12.5°	1201.3	1224.9	1236.7	1242.2	1228.9
15°	1197.4	1213.9	1226.5	1221.0	1214.7
17.5°	1190.3	1185.6	1194.2	1200.5	1193.5
20°	1152.6	1160.4	1173.0	1174.6	1176.2
22.5°	1127.4	1129.7	1154.9	1157.3	1154.1
25°	1111.6	1119.5	1130.5	1125.8	1129.0
27.5°	1065.2	1084.1	1094.3	1103.8	1103.8
30°	1023.5	1045.6	1070.7	1073.9	1073.9
32.5°	996.0	1010.9	1029.8	1036.1	1053.4
35°	953.5	970.8	1003.1	1007.8	1017.2
37.5°	923.6	940.9	955.9	972.4	976.3
40°	882.7	900.8	918.1	937.0	943.3
42.5°	839.4	858.3	881.1	900.8	908.7
45°	809.5	815.8	838.6	856.7	870.1
47.5°	755.3	773.4	802.5	825.3	830.8
50°	721.4	728.5	759.2	789.9	790.7
52.5°	664.8	686.0	715.9	745.0	749.0
55°	617.6	634.1	664.8	694.7	707.3
57.5°	573.5	586.1	625.4	655.3	662.4
60°	525.5	538.9	575.1	609.7	619.9
62.5°	469.7	488.6	527.9	560.9	575.1
65°	421.7	436.6	479.1	513.7	525.5
67.5°	367.4	387.9	428.0	466.5	479.1
70°	314.7	335.1	375.3	415.4	439.8
72.5°	262.8	284.0	324.1	370.5	383.9
75°	211.6	232.1	271.4	314.7	335.9
77.5°	161.3	183.3	223.4	266.7	287.2
80°	118.0	135.3	178.6	216.3	233.7
82.5°	73.2	91.3	131.4	166.8	181.7
85°	36.2	51.9	80.2	95.2	99.1
87.5°	11.0	16.5	25.2	33.0	37.8
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	16.24	17.91	16.61	18.22	18.54	17.07	18.73	17.43	19.04	19.36
	3H	18.00	19.51	18.37	19.83	20.19	19.22	20.72	19.59	21.05	21.41
	4H	18.61	20.03	19.01	20.38	20.76	20.13	21.55	20.53	21.90	22.27
	6H	19.02	20.34	19.43	20.70	21.09	20.93	22.25	21.34	22.61	23.01
	8H	19.12	20.38	19.54	20.77	21.17	21.25	22.52	21.68	22.90	23.30
	12H	19.16	20.37	19.59	20.76	21.18	21.46	22.67	21.89	23.05	23.48
4H	2H	17.04	18.46	17.43	18.81	19.18	17.67	19.10	18.07	19.44	19.82
	3H	19.01	20.21	19.42	20.60	21.00	20.05	21.25	20.46	21.65	22.05
	4H	19.74	20.83	20.17	21.24	21.68	21.12	22.21	21.55	22.62	23.05
	6H	20.26	21.21	20.71	21.65	22.11	22.09	23.04	22.54	23.48	23.93
	8H	20.40	21.29	20.86	21.74	22.20	22.48	23.38	22.94	23.82	24.28
	12H	20.48	21.28	20.96	21.76	22.22	22.75	23.56	23.23	24.03	24.50
8H	4H	20.21	21.10	20.67	21.54	22.00	21.41	22.30	21.87	22.74	23.21
	6H	20.86	21.61	21.35	22.09	22.57	22.53	23.28	23.03	23.77	24.24
	8H	21.07	21.74	21.57	22.24	22.73	23.04	23.71	23.55	24.22	24.70
	12H	21.20	21.79	21.70	22.28	22.84	23.41	24.00	23.92	24.49	25.05
12H	4H	20.30	21.10	20.78	21.58	22.04	21.43	22.24	21.91	22.71	23.18
	6H	21.00	21.67	21.51	22.17	22.66	22.58	23.25	23.09	23.76	24.24
	8H	21.27	21.87	21.78	22.36	22.91	23.16	23.75	23.66	24.24	24.80