

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: P1586598

Luminaire Tested: 22CZSP-A-35-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586598
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-L845-S
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

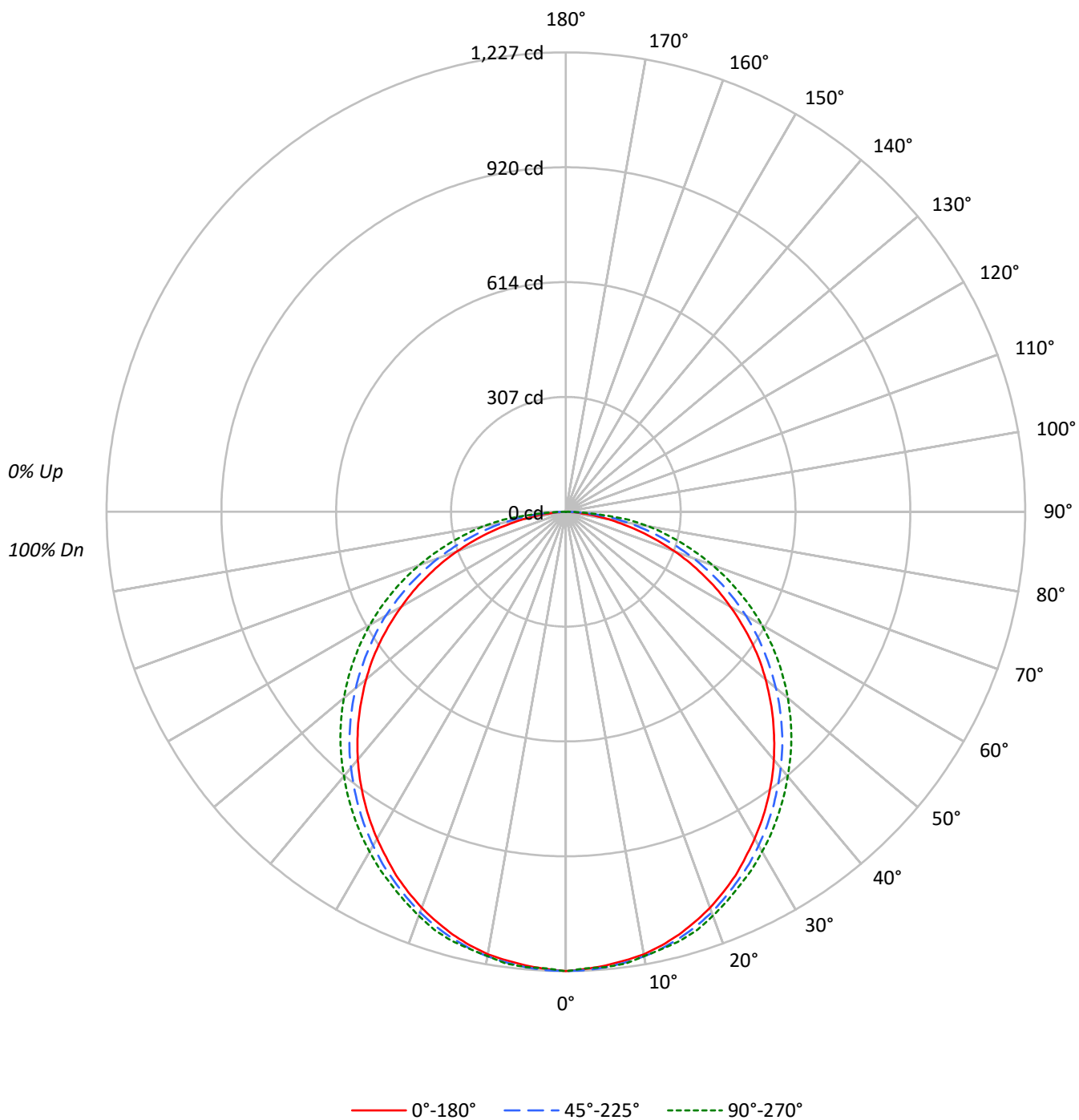
Lumens per Lamp: N/A
Luminaire Lumens: 3582.0 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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			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	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°	3842	3842	3842
5°	3824	3839	3837
10°	3816	3834	3831
15°	3789	3819	3842
20°	3750	3795	3826
25°	3704	3756	3802
30°	3646	3723	3791
35°	3593	3687	3780
40°	3534	3650	3769
45°	3467	3613	3773
50°	3392	3568	3771
55°	3304	3519	3776
60°	3180	3480	3785
65°	3034	3413	3797
70°	2828	3317	3814
75°	2520	3186	3851
80°	2083	3033	4039
85°	1354	2738	3528

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4167 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.0	3.2
10°-20°	332.3	9.3
20°-30°	501.1	14.0
30°-40°	603.6	16.8
40°-50°	630.3	17.6
50°-60°	578.9	16.2
60°-70°	455.9	12.7
70°-80°	279.7	7.8
80°-90°	84.2	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°	949.4	26.5
0°-40°	1553.0	43.4
0°-60°	2762.2	77.1
0°-90°	3582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3582.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1227	1227	1227	1227	1227	
5°	1217	1218	1221	1225	1221	116
15°	1169	1171	1178	1185	1185	330
25°	1072	1074	1087	1100	1100	493
35°	940	945	964	984	989	588
45°	783	792	816	844	852	604
55°	605	616	644	681	692	540
65°	410	424	461	499	512	405
75°	208	225	263	305	318	221
85°	38	52	76	97	98	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1226.9	1226.9	1226.9	1226.9	1226.9
2.5°	1222.2	1224.6	1225.4	1226.1	1220.6
5°	1216.7	1218.3	1221.4	1225.4	1220.6
7.5°	1208.9	1210.4	1214.4	1219.9	1217.5
10°	1200.2	1201.0	1205.7	1209.6	1204.9
12.5°	1186.1	1188.4	1193.9	1197.1	1195.5
15°	1168.8	1171.1	1178.2	1185.3	1185.3
17.5°	1148.3	1151.5	1160.1	1169.6	1170.3
20°	1125.5	1127.9	1138.9	1148.3	1148.3
22.5°	1099.6	1102.7	1113.7	1124.0	1125.5
25°	1072.1	1074.4	1087.0	1100.4	1100.4
27.5°	1039.9	1044.6	1060.3	1073.7	1076.8
30°	1008.4	1012.4	1029.6	1046.2	1048.5
32.5°	975.4	980.1	998.2	1016.3	1020.2
35°	940.0	944.8	964.4	984.1	988.8
37.5°	903.1	908.6	929.0	951.8	956.6
40°	864.6	870.9	892.9	917.3	922.0
42.5°	823.7	832.4	855.9	881.1	888.2
45°	782.8	791.5	815.9	844.2	852.0
47.5°	739.6	749.8	775.0	804.9	813.5
50°	696.4	706.6	732.5	764.8	774.2
52.5°	652.4	662.6	689.3	723.1	733.3
55°	605.2	616.2	644.5	680.7	691.7
57.5°	556.5	570.6	600.5	637.4	648.4
60°	507.7	521.9	555.7	591.9	604.4
62.5°	459.8	473.2	507.7	546.3	559.6
65°	409.5	423.6	460.6	499.1	512.5
67.5°	360.0	374.1	411.1	451.2	465.3
70°	308.9	324.6	362.3	402.4	416.6
72.5°	257.8	274.3	312.8	353.7	367.1
75°	208.3	224.8	263.3	305.0	318.3
77.5°	159.6	177.6	215.4	257.8	270.4
80°	115.5	132.8	168.2	209.9	224.0
82.5°	73.9	88.8	124.2	163.5	173.7
85°	37.7	51.9	76.2	96.7	98.2
87.5°	11.8	16.5	25.2	37.7	38.5
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	16.15	17.82	16.52	18.13	18.44	16.98	18.65	17.35	18.96	19.27
	3H	17.91	19.42	18.29	19.74	20.10	19.10	20.61	19.48	20.93	21.29
	4H	18.53	19.95	18.93	20.30	20.67	19.99	21.41	20.39	21.76	22.13
	6H	18.94	20.26	19.35	20.62	21.01	20.77	22.09	21.18	22.46	22.85
	8H	19.05	20.31	19.47	20.70	21.10	21.09	22.35	21.51	22.74	23.14
	12H	19.10	20.31	19.53	20.69	21.12	21.30	22.51	21.73	22.89	23.32
4H	2H	16.93	18.35	17.32	18.70	19.07	17.57	18.99	17.97	19.34	19.72
	3H	18.90	20.10	19.31	20.50	20.90	19.93	21.13	20.34	21.52	21.92
	4H	19.64	20.73	20.07	21.14	21.57	20.98	22.07	21.41	22.48	22.91
	6H	20.17	21.12	20.62	21.56	22.01	21.93	22.88	22.38	23.32	23.78
	8H	20.31	21.21	20.77	21.65	22.11	22.33	23.22	22.79	23.66	24.13
	12H	20.40	21.20	20.88	21.68	22.14	22.61	23.41	23.08	23.88	24.35
8H	4H	20.10	20.99	20.56	21.43	21.90	21.27	22.16	21.73	22.60	23.07
	6H	20.76	21.50	21.25	21.99	22.46	22.38	23.13	22.87	23.61	24.09
	8H	20.97	21.64	21.48	22.14	22.63	22.89	23.56	23.40	24.07	24.55
	12H	21.11	21.70	21.62	22.19	22.75	23.28	23.87	23.78	24.36	24.92
12H	4H	20.19	20.99	20.67	21.47	21.93	21.29	22.10	21.77	22.57	23.04
	6H	20.89	21.56	21.40	22.07	22.55	22.43	23.10	22.93	23.60	24.09
	8H	21.17	21.76	21.68	22.25	22.81	23.01	23.60	23.51	24.09	24.65