

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: P1586595

Luminaire Tested: 22CZSP-A-35-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586595
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-L835
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

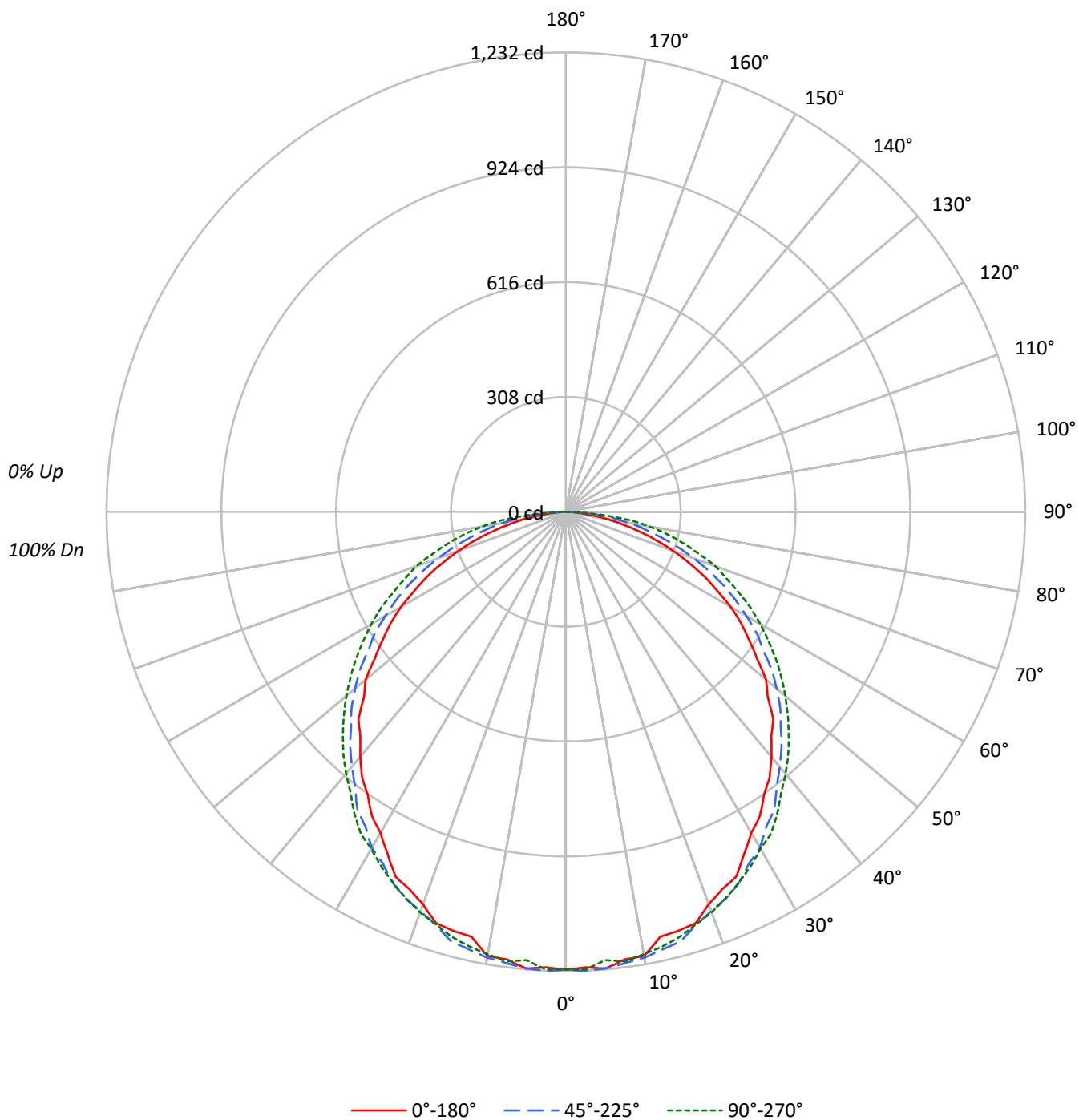
Lumens per Lamp: N/A
Luminaire Lumens: 3585.0 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	3845	3845	3845
5°	3864	3864	3795
10°	3846	3860	3831
15°	3772	3864	3827
20°	3732	3798	3809
25°	3732	3796	3791
30°	3597	3762	3773
35°	3542	3726	3779
40°	3506	3647	3747
45°	3484	3609	3745
50°	3415	3594	3743
55°	3277	3527	3752
60°	3198	3500	3773
65°	3036	3450	3784
70°	2800	3339	3913
75°	2489	3192	3950
80°	2068	3130	4095
85°	1265	2802	3460

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4237 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.4	3.2
10°-20°	332.7	9.3
20°-30°	501.8	14.0
30°-40°	602.8	16.8
40°-50°	629.2	17.6
50°-60°	579.3	16.2
60°-70°	457.5	12.8
70°-80°	281.7	7.9
80°-90°	83.5	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°	951.0	26.5
0°-40°	1553.8	43.3
0°-60°	2762.3	77.1
0°-90°	3585.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3585.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1228	1228	1228	1228	1228	
5°	1229	1217	1229	1231	1207	116
15°	1164	1180	1192	1187	1180	329
25°	1080	1088	1099	1094	1097	492
35°	927	944	975	979	989	582
45°	787	793	815	833	846	602
55°	600	616	646	675	687	539
65°	410	424	466	499	511	404
75°	206	226	264	306	326	218
85°	35	50	78	92	96	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1227.9	1227.9	1227.9	1227.9	1227.9
2.5°	1223.3	1236.3	1232.4	1234.7	1228.6
5°	1229.4	1217.2	1229.4	1230.9	1207.2
7.5°	1211.0	1212.6	1221.0	1223.3	1216.4
10°	1209.5	1214.1	1214.1	1206.5	1204.9
12.5°	1167.5	1190.4	1201.9	1207.2	1194.2
15°	1163.6	1179.7	1191.9	1186.6	1180.5
17.5°	1156.8	1152.2	1160.6	1166.7	1159.8
20°	1120.1	1127.7	1139.9	1141.5	1143.0
22.5°	1095.6	1097.9	1122.4	1124.6	1121.6
25°	1080.3	1087.9	1098.7	1094.1	1097.1
27.5°	1035.2	1053.5	1063.5	1072.7	1072.7
30°	994.7	1016.1	1040.5	1043.6	1043.6
32.5°	967.9	982.4	1000.8	1006.9	1023.7
35°	926.6	943.5	974.8	979.4	988.6
37.5°	897.6	914.4	928.9	945.0	948.8
40°	857.8	875.4	892.2	910.6	916.7
42.5°	815.8	834.1	856.3	875.4	883.1
45°	786.7	792.8	815.0	832.6	845.6
47.5°	734.0	751.5	779.8	802.0	807.4
50°	701.1	708.0	737.8	767.6	768.4
52.5°	646.0	666.7	695.7	724.0	727.8
55°	600.2	616.2	646.0	675.1	687.3
57.5°	557.4	569.6	607.8	636.9	643.7
60°	510.7	523.7	558.9	592.5	602.5
62.5°	456.4	474.8	513.0	545.1	558.9
65°	409.8	424.3	465.6	499.2	510.7
67.5°	357.0	376.9	415.9	453.4	465.6
70°	305.8	325.7	364.7	403.7	427.4
72.5°	255.4	276.0	315.0	360.1	373.1
75°	205.7	225.5	263.8	305.8	326.5
77.5°	156.7	178.1	217.1	259.2	279.1
80°	114.7	131.5	173.6	210.3	227.1
82.5°	71.1	88.7	127.7	162.1	176.6
85°	35.2	50.5	78.0	92.5	96.3
87.5°	10.7	16.1	24.5	32.1	36.7
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	16.15	17.81	16.51	18.12	18.44	16.97	18.63	17.33	18.95	19.26
	3H	17.90	19.41	18.28	19.73	20.09	19.12	20.62	19.49	20.95	21.31
	4H	18.51	19.94	18.91	20.28	20.66	20.03	21.45	20.43	21.80	22.17
	6H	18.92	20.24	19.33	20.60	20.99	20.83	22.15	21.24	22.52	22.91
	8H	19.02	20.28	19.44	20.67	21.07	21.15	22.42	21.58	22.80	23.20
	12H	19.06	20.27	19.49	20.66	21.08	21.36	22.57	21.79	22.95	23.38
4H	2H	16.94	18.36	17.33	18.71	19.08	17.57	19.00	17.97	19.34	19.72
	3H	18.91	20.11	19.32	20.51	20.90	19.95	21.15	20.36	21.55	21.95
	4H	19.64	20.73	20.07	21.14	21.58	21.02	22.11	21.45	22.52	22.95
	6H	20.16	21.11	20.61	21.55	22.01	21.99	22.94	22.44	23.38	23.83
	8H	20.30	21.19	20.76	21.64	22.10	22.39	23.28	22.84	23.72	24.18
	12H	20.38	21.18	20.86	21.66	22.12	22.65	23.46	23.13	23.93	24.40
8H	4H	20.11	21.00	20.57	21.44	21.91	21.31	22.20	21.77	22.64	23.11
	6H	20.76	21.51	21.25	21.99	22.47	22.44	23.18	22.93	23.67	24.14
	8H	20.97	21.64	21.48	22.14	22.63	22.94	23.61	23.45	24.12	24.60
	12H	21.10	21.69	21.60	22.18	22.74	23.31	23.90	23.82	24.39	24.95
12H	4H	20.20	21.00	20.68	21.48	21.95	21.33	22.14	21.81	22.61	23.08
	6H	20.90	21.57	21.41	22.08	22.56	22.48	23.15	22.99	23.66	24.14
	8H	21.17	21.77	21.68	22.26	22.81	23.06	23.65	23.56	24.14	24.70