

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: P1588725

Luminaire Tested: 24CZSP-A-57-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2604-747-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-57-L935
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

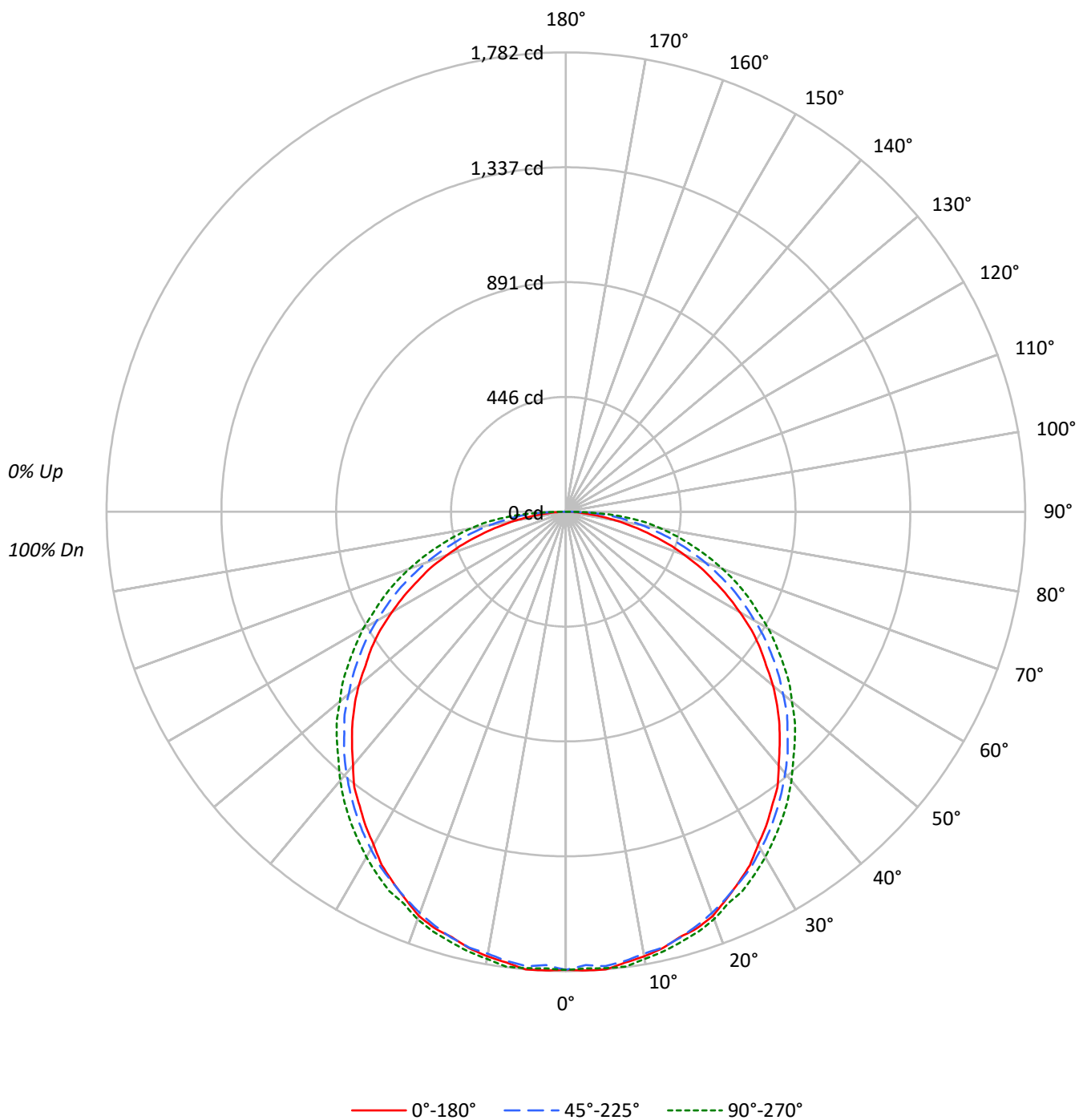
Lumens per Lamp: N/A
Luminaire Lumens: 5424.0 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9
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	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	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82		
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67		
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56		
4	81	69	60	53	79	67	59	52	65	57	51	62	56	51	60	55	50	48		
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41		
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36		
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32		
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28		
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25		
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2722	2722	2722
5°	2740	2720	2732
10°	2723	2707	2739
15°	2709	2713	2740
20°	2719	2699	2742
25°	2680	2685	2742
30°	2637	2674	2736
35°	2606	2660	2730
40°	2569	2647	2722
45°	2538	2634	2721
50°	2501	2622	2727
55°	2456	2612	2751
60°	2387	2594	2781
65°	2293	2594	2825
70°	2187	2577	2891
75°	2014	2583	2998
80°	1764	2636	3300
85°	1346	3037	3949

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 4379 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	3.1
10°-20°	485.0	8.9
20°-30°	736.7	13.6
30°-40°	892.5	16.5
40°-50°	938.9	17.3
50°-60°	873.0	16.1
60°-70°	702.9	13.0
70°-80°	455.4	8.4
80°-90°	170.8	3.1
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°	1390.5	25.6
0°-40°	2283.0	42.1
0°-60°	4094.9	75.5
0°-90°	5424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5424.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1777	1777	1777	1777	1777	
5°	1782	1780	1769	1780	1777	169
15°	1708	1715	1711	1732	1728	484
25°	1586	1585	1589	1616	1622	731
35°	1394	1404	1422	1447	1460	873
45°	1172	1187	1216	1242	1256	903
55°	920	943	978	1017	1030	820
65°	633	661	716	759	779	629
75°	340	374	436	487	507	362
85°	77	113	173	216	225	94
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1777.0	1777.0	1777.0	1777.0	1777.0
2.5°	1780.9	1780.9	1760.1	1782.2	1773.1
5°	1782.2	1779.6	1769.2	1779.6	1777.0
7.5°	1764.0	1766.6	1757.5	1770.5	1779.6
10°	1751.0	1753.6	1740.7	1761.4	1761.4
12.5°	1734.2	1736.8	1731.6	1751.0	1747.1
15°	1708.2	1714.7	1710.8	1731.6	1727.7
17.5°	1693.9	1688.7	1684.8	1700.4	1708.2
20°	1667.9	1656.2	1656.2	1677.0	1682.2
22.5°	1626.3	1622.4	1623.7	1649.7	1644.5
25°	1586.1	1584.8	1588.7	1615.9	1622.4
27.5°	1545.8	1543.2	1554.9	1580.9	1586.1
30°	1491.2	1496.4	1512.0	1540.6	1547.1
32.5°	1445.8	1454.9	1469.2	1496.4	1504.2
35°	1393.8	1404.2	1422.4	1447.1	1460.1
37.5°	1348.4	1354.9	1374.3	1397.7	1413.3
40°	1284.7	1301.6	1323.7	1357.4	1361.3
42.5°	1227.6	1244.4	1273.0	1309.4	1305.5
45°	1171.7	1187.3	1215.9	1241.8	1256.1
47.5°	1111.9	1126.2	1163.9	1195.1	1205.5
50°	1049.6	1067.8	1100.2	1132.7	1144.4
52.5°	979.4	998.9	1040.5	1075.6	1092.5
55°	919.7	943.1	978.1	1017.1	1030.1
57.5°	853.4	872.9	915.8	954.8	967.8
60°	779.4	802.8	846.9	888.5	908.0
62.5°	708.0	733.9	780.7	823.6	839.2
65°	632.6	661.2	715.7	758.6	779.4
67.5°	567.7	591.0	644.3	692.4	714.4
70°	488.4	519.6	575.5	628.7	645.6
72.5°	418.3	445.6	504.0	557.3	578.1
75°	340.3	374.1	436.5	487.1	506.6
77.5°	268.9	304.0	366.3	419.6	441.7
80°	200.0	233.8	298.8	353.3	374.1
82.5°	135.1	168.9	233.8	287.1	310.5
85°	76.6	113.0	172.8	215.6	224.7
87.5°	33.8	64.9	97.4	116.9	124.7
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	15.16	16.84	15.53	17.16	17.47	15.84	17.52	16.20	17.83	18.15
	3H	17.02	18.55	17.39	18.87	19.23	18.06	19.58	18.43	19.91	20.27
	4H	17.70	19.15	18.10	19.49	19.87	19.02	20.46	19.42	20.81	21.18
	6H	18.20	19.54	18.61	19.90	20.29	19.91	21.25	20.32	21.62	22.01
	8H	18.34	19.63	18.77	20.02	20.41	20.31	21.60	20.74	21.99	22.39
	12H	18.43	19.66	18.86	20.05	20.47	20.67	21.91	21.10	22.29	22.72
4H	2H	15.96	17.40	16.35	17.75	18.12	16.48	17.92	16.87	18.27	18.64
	3H	18.04	19.27	18.45	19.66	20.06	18.94	20.16	19.35	20.55	20.95
	4H	18.86	19.97	19.29	20.39	20.82	20.06	21.18	20.50	21.59	22.02
	6H	19.49	20.46	19.94	20.90	21.36	21.14	22.11	21.59	22.55	23.00
	8H	19.69	20.60	20.14	21.04	21.51	21.63	22.54	22.08	22.98	23.45
	12H	19.82	20.65	20.30	21.12	21.59	22.08	22.90	22.56	23.38	23.85
8H	4H	19.37	20.29	19.83	20.73	21.19	20.41	21.32	20.87	21.76	22.23
	6H	20.16	20.92	20.65	21.41	21.88	21.66	22.42	22.15	22.91	23.38
	8H	20.44	21.13	20.95	21.63	22.12	22.28	22.97	22.79	23.47	23.96
	12H	20.66	21.27	21.16	21.76	22.32	22.89	23.50	23.40	23.99	24.55
12H	4H	19.48	20.31	19.96	20.78	21.25	20.45	21.27	20.92	21.75	22.21
	6H	20.32	21.02	20.83	21.52	22.00	21.73	22.42	22.24	22.93	23.41
	8H	20.69	21.31	21.20	21.80	22.35	22.44	23.05	22.94	23.54	24.10