

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: P1588723

Luminaire Tested: 24CZSP-A-57-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588723
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-L930
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

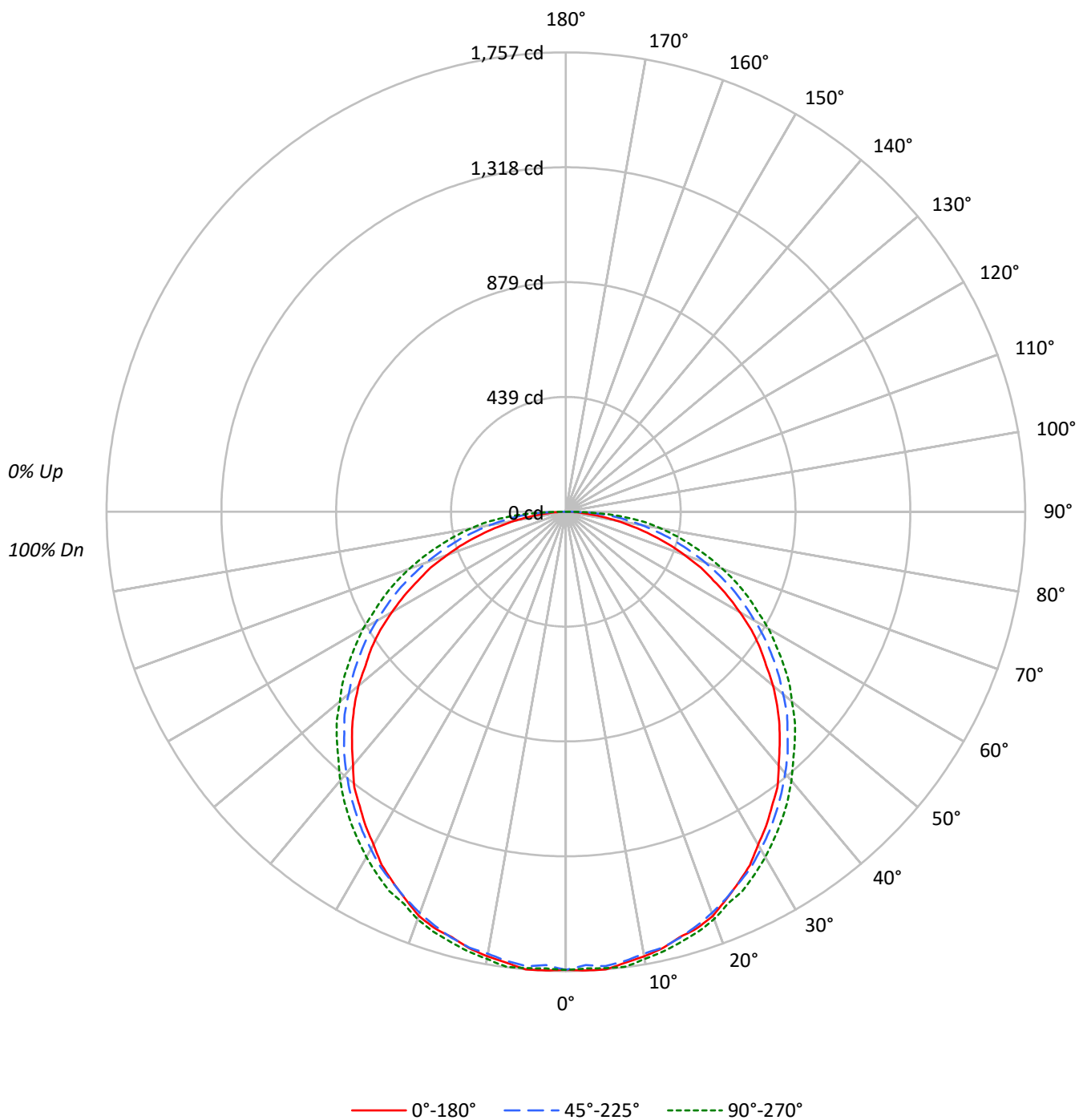
Lumens per Lamp: N/A
Luminaire Lumens: 5348.0 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	2684	2684	2684
5°	2702	2682	2694
10°	2685	2669	2701
15°	2671	2675	2701
20°	2680	2662	2703
25°	2643	2647	2703
30°	2601	2637	2698
35°	2570	2622	2692
40°	2533	2609	2684
45°	2502	2597	2683
50°	2466	2585	2689
55°	2421	2575	2712
60°	2354	2558	2743
65°	2260	2558	2785
70°	2157	2541	2851
75°	1986	2546	2956
80°	1739	2598	3254
85°	1329	2993	3894

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 4319 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.4	3.1
10°-20°	478.2	8.9
20°-30°	726.4	13.6
30°-40°	880.0	16.5
40°-50°	925.8	17.3
50°-60°	860.8	16.1
60°-70°	693.1	13.0
70°-80°	449.0	8.4
80°-90°	168.4	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°	1371.0	25.6
0°-40°	2251.0	42.1
0°-60°	4037.6	75.5
0°-90°	5348.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5348.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1752	1752	1752	1752	1752	
5°	1757	1755	1744	1755	1752	166
15°	1684	1691	1687	1707	1704	477
25°	1564	1563	1566	1593	1600	721
35°	1374	1384	1402	1427	1440	861
45°	1155	1171	1199	1224	1238	891
55°	907	930	964	1003	1016	809
65°	624	652	706	748	768	620
75°	336	369	430	480	500	357
85°	76	111	170	213	222	93
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1752.1	1752.1	1752.1	1752.1	1752.1
2.5°	1756.0	1756.0	1735.5	1757.2	1748.3
5°	1757.2	1754.7	1744.4	1754.7	1752.1
7.5°	1739.3	1741.9	1732.9	1745.7	1754.7
10°	1726.5	1729.1	1716.3	1736.8	1736.8
12.5°	1709.9	1712.4	1707.3	1726.5	1722.7
15°	1684.2	1690.6	1686.8	1707.3	1703.5
17.5°	1670.2	1665.0	1661.2	1676.6	1684.2
20°	1644.5	1633.0	1633.0	1653.5	1658.6
22.5°	1603.6	1599.7	1601.0	1626.6	1621.5
25°	1563.8	1562.6	1566.4	1593.3	1599.7
27.5°	1524.1	1521.6	1533.1	1558.7	1563.8
30°	1470.4	1475.5	1490.8	1519.0	1525.4
32.5°	1425.5	1434.5	1448.6	1475.5	1483.2
35°	1374.3	1384.5	1402.5	1426.8	1439.6
37.5°	1329.5	1335.9	1355.1	1378.1	1393.5
40°	1266.7	1283.4	1305.1	1338.4	1342.3
42.5°	1210.4	1227.0	1255.2	1291.0	1287.2
45°	1155.3	1170.6	1198.8	1224.4	1238.5
47.5°	1096.4	1110.4	1147.6	1178.3	1188.6
50°	1034.9	1052.8	1084.8	1116.9	1128.4
52.5°	965.7	984.9	1025.9	1060.5	1077.1
55°	906.8	929.9	964.4	1002.9	1015.7
57.5°	841.5	860.7	903.0	941.4	954.2
60°	768.5	791.5	835.1	876.1	895.3
62.5°	698.0	723.6	769.8	812.0	827.4
65°	623.7	651.9	705.7	748.0	768.5
67.5°	559.7	582.8	635.3	682.7	704.4
70°	481.6	512.3	567.4	619.9	636.6
72.5°	412.4	439.3	496.9	549.5	570.0
75°	335.6	368.9	430.3	480.3	499.5
77.5°	265.1	299.7	361.2	413.7	435.5
80°	197.2	230.5	294.6	348.4	368.9
82.5°	133.2	166.5	230.5	283.1	306.1
85°	75.6	111.4	170.3	212.6	221.6
87.5°	33.3	64.0	96.1	115.3	123.0
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	15.11	16.80	15.48	17.11	17.42	15.79	17.47	16.15	17.78	18.10
	3H	16.97	18.50	17.34	18.82	19.18	18.01	19.53	18.38	19.86	20.22
	4H	17.65	19.10	18.05	19.45	19.82	18.97	20.41	19.37	20.76	21.14
	6H	18.15	19.49	18.56	19.85	20.24	19.86	21.20	20.27	21.57	21.96
	8H	18.29	19.58	18.72	19.97	20.36	20.27	21.55	20.69	21.94	22.34
	12H	18.38	19.62	18.81	20.00	20.43	20.62	21.86	21.05	22.24	22.67
4H	2H	15.91	17.35	16.30	17.70	18.07	16.43	17.87	16.82	18.22	18.59
	3H	17.99	19.22	18.40	19.61	20.01	18.89	20.11	19.30	20.50	20.90
	4H	18.81	19.93	19.25	20.34	20.77	20.02	21.13	20.45	21.54	21.97
	6H	19.44	20.42	19.89	20.85	21.31	21.09	22.06	21.54	22.50	22.95
	8H	19.64	20.55	20.09	20.99	21.46	21.58	22.49	22.03	22.93	23.40
	12H	19.77	20.60	20.25	21.07	21.54	22.03	22.86	22.51	23.33	23.80
8H	4H	19.32	20.24	19.78	20.68	21.14	20.36	21.27	20.82	21.71	22.18
	6H	20.11	20.88	20.60	21.36	21.83	21.61	22.38	22.10	22.86	23.33
	8H	20.39	21.08	20.90	21.59	22.07	22.23	22.92	22.74	23.43	23.91
	12H	20.61	21.22	21.11	21.71	22.27	22.84	23.46	23.35	23.94	24.50
12H	4H	19.43	20.26	19.91	20.73	21.20	20.40	21.22	20.87	21.70	22.16
	6H	20.28	20.97	20.78	21.47	21.95	21.68	22.37	22.19	22.88	23.36
	8H	20.65	21.26	21.15	21.75	22.30	22.39	23.00	22.89	23.49	24.05