

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: P1588726

Luminaire Tested: 24CZSP-A-57-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588726
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: 24CZSP-A-57-L940-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 5000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

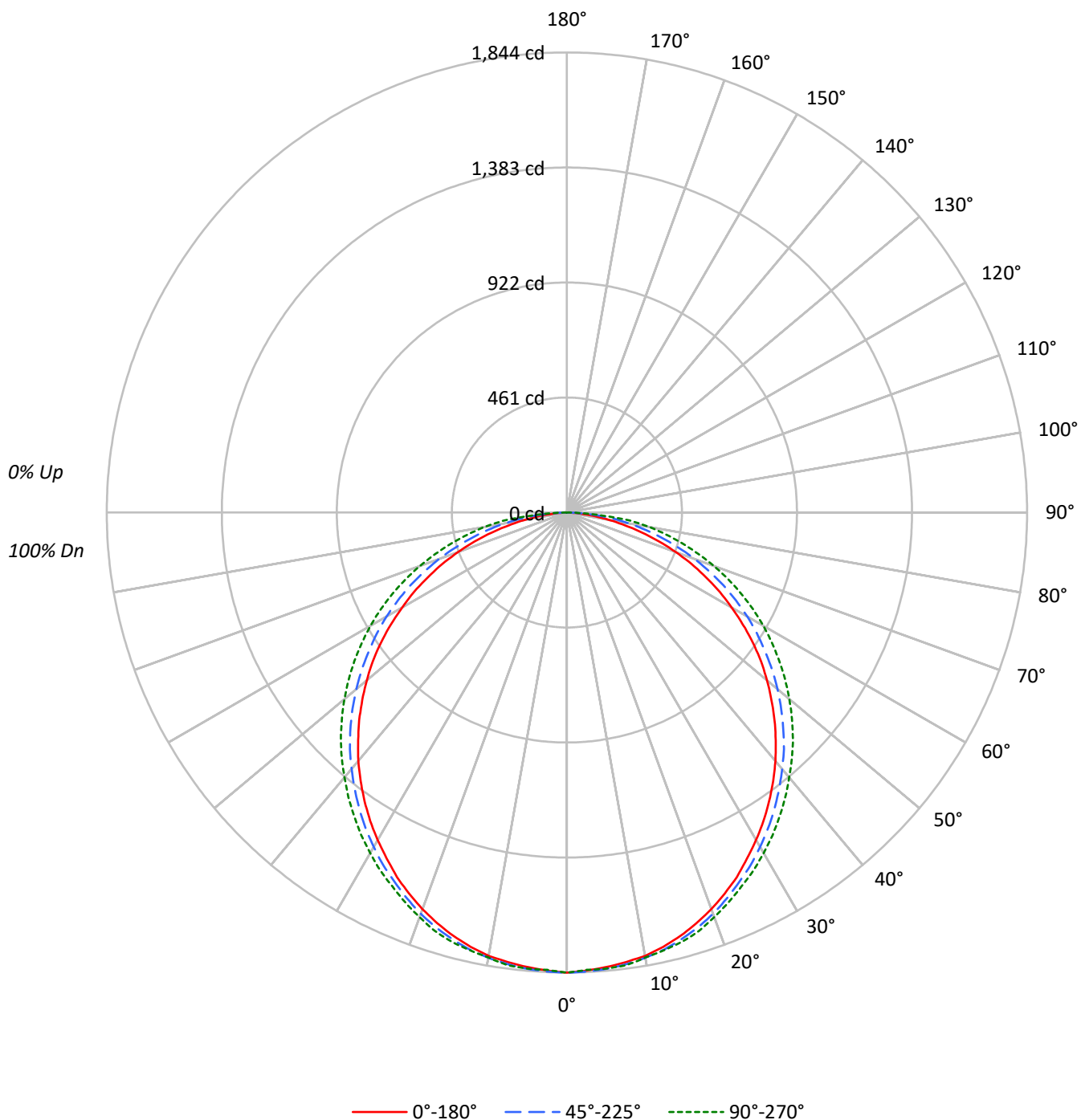
Lumens per Lamp: N/A
Luminaire Lumens: 5385.0 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	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°	2825	2825	2825
5°	2812	2823	2821
10°	2806	2819	2817
15°	2786	2809	2825
20°	2758	2791	2814
25°	2724	2762	2796
30°	2681	2738	2788
35°	2642	2711	2779
40°	2599	2684	2771
45°	2549	2657	2774
50°	2495	2624	2773
55°	2429	2587	2777
60°	2338	2559	2784
65°	2231	2509	2792
70°	2080	2439	2805
75°	1853	2342	2832
80°	1532	2231	2971
85°	996	2014	2596

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3064 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.4	3.2
10°-20°	499.5	9.3
20°-30°	753.3	14.0
30°-40°	907.4	16.8
40°-50°	947.6	17.6
50°-60°	870.3	16.2
60°-70°	685.4	12.7
70°-80°	420.5	7.8
80°-90°	126.5	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°	1427.3	26.5
0°-40°	2334.6	43.4
0°-60°	4152.5	77.1
0°-90°	5385.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5385.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1844	1844	1844	1844	1844	
5°	1829	1832	1836	1842	1835	174
15°	1757	1761	1771	1782	1782	495
25°	1612	1615	1634	1654	1654	742
35°	1413	1420	1450	1479	1486	884
45°	1177	1190	1226	1269	1281	907
55°	910	926	969	1023	1040	812
65°	616	637	692	750	770	609
75°	313	338	396	458	479	332
85°	57	78	115	145	148	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1844.5	1844.5	1844.5	1844.5	1844.5
2.5°	1837.4	1841.0	1842.1	1843.3	1835.1
5°	1829.1	1831.5	1836.2	1842.1	1835.1
7.5°	1817.3	1819.7	1825.6	1833.9	1830.3
10°	1804.3	1805.5	1812.6	1818.5	1811.4
12.5°	1783.1	1786.6	1794.9	1799.6	1797.2
15°	1757.1	1760.6	1771.2	1781.9	1781.9
17.5°	1726.3	1731.1	1744.1	1758.2	1759.4
20°	1692.1	1695.6	1712.2	1726.3	1726.3
22.5°	1653.1	1657.8	1674.4	1689.7	1692.1
25°	1611.7	1615.3	1634.2	1654.3	1654.3
27.5°	1563.3	1570.4	1594.0	1614.1	1618.8
30°	1516.0	1521.9	1547.9	1572.7	1576.3
32.5°	1466.4	1473.5	1500.7	1527.8	1533.7
35°	1413.2	1420.3	1449.8	1479.4	1486.5
37.5°	1357.7	1366.0	1396.7	1430.9	1438.0
40°	1299.8	1309.2	1342.3	1378.9	1386.0
42.5°	1238.3	1251.3	1286.8	1324.6	1335.2
45°	1176.9	1189.9	1226.5	1269.1	1280.9
47.5°	1111.9	1127.3	1165.1	1210.0	1223.0
50°	1046.9	1062.3	1101.3	1149.7	1163.9
52.5°	980.7	996.1	1036.3	1087.1	1102.4
55°	909.8	926.4	968.9	1023.3	1039.8
57.5°	836.6	857.9	902.8	958.3	974.8
60°	763.3	784.6	835.4	889.8	908.7
62.5°	691.2	711.3	763.3	821.2	841.3
65°	615.6	636.9	692.4	750.3	770.4
67.5°	541.2	562.5	618.0	678.2	699.5
70°	464.4	488.0	544.7	605.0	626.3
72.5°	387.6	412.4	470.3	531.7	551.8
75°	313.1	337.9	395.8	458.5	478.6
77.5°	239.9	267.0	323.8	387.6	406.5
80°	173.7	199.7	252.9	315.5	336.8
82.5°	111.1	133.5	186.7	245.8	261.1
85°	56.7	78.0	114.6	145.3	147.7
87.5°	17.7	24.8	37.8	56.7	57.9
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	15.09	16.75	15.45	17.06	17.38	15.92	17.58	16.28	17.89	18.21
	3H	16.84	18.35	17.22	18.68	19.04	18.03	19.54	18.41	19.87	20.23
	4H	17.46	18.88	17.86	19.23	19.60	18.92	20.34	19.32	20.69	21.07
	6H	17.87	19.19	18.28	19.56	19.95	19.70	21.02	20.11	21.39	21.78
	8H	17.98	19.24	18.40	19.63	20.03	20.02	21.29	20.45	21.67	22.07
	12H	18.03	19.24	18.46	19.62	20.05	20.23	21.44	20.66	21.83	22.25
4H	2H	15.86	17.28	16.26	17.63	18.00	16.50	17.93	16.90	18.27	18.65
	3H	17.84	19.03	18.24	19.43	19.83	18.86	20.06	19.27	20.45	20.85
	4H	18.57	19.66	19.00	20.07	20.51	19.91	21.00	20.34	21.41	21.85
	6H	19.10	20.05	19.55	20.49	20.95	20.86	21.82	21.32	22.26	22.71
	8H	19.25	20.14	19.71	20.58	21.04	21.26	22.15	21.72	22.59	23.06
	12H	19.33	20.13	19.81	20.61	21.08	21.54	22.34	22.02	22.82	23.28
8H	4H	19.03	19.92	19.49	20.36	20.83	20.20	21.09	20.66	21.53	22.00
	6H	19.69	20.44	20.18	20.92	21.40	21.31	22.06	21.80	22.54	23.02
	8H	19.90	20.57	20.41	21.08	21.56	21.82	22.49	22.33	23.00	23.48
	12H	20.04	20.63	20.55	21.12	21.68	22.21	22.80	22.72	23.29	23.85
12H	4H	19.12	19.92	19.60	20.40	20.87	20.23	21.03	20.70	21.50	21.97
	6H	19.82	20.49	20.33	21.00	21.48	21.36	22.03	21.87	22.53	23.02
	8H	20.10	20.69	20.61	21.18	21.74	21.94	22.53	22.44	23.02	23.58