

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: P1588807

Luminaire Tested: 24CZSP-A-65-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588807
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-65-L940
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 6000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

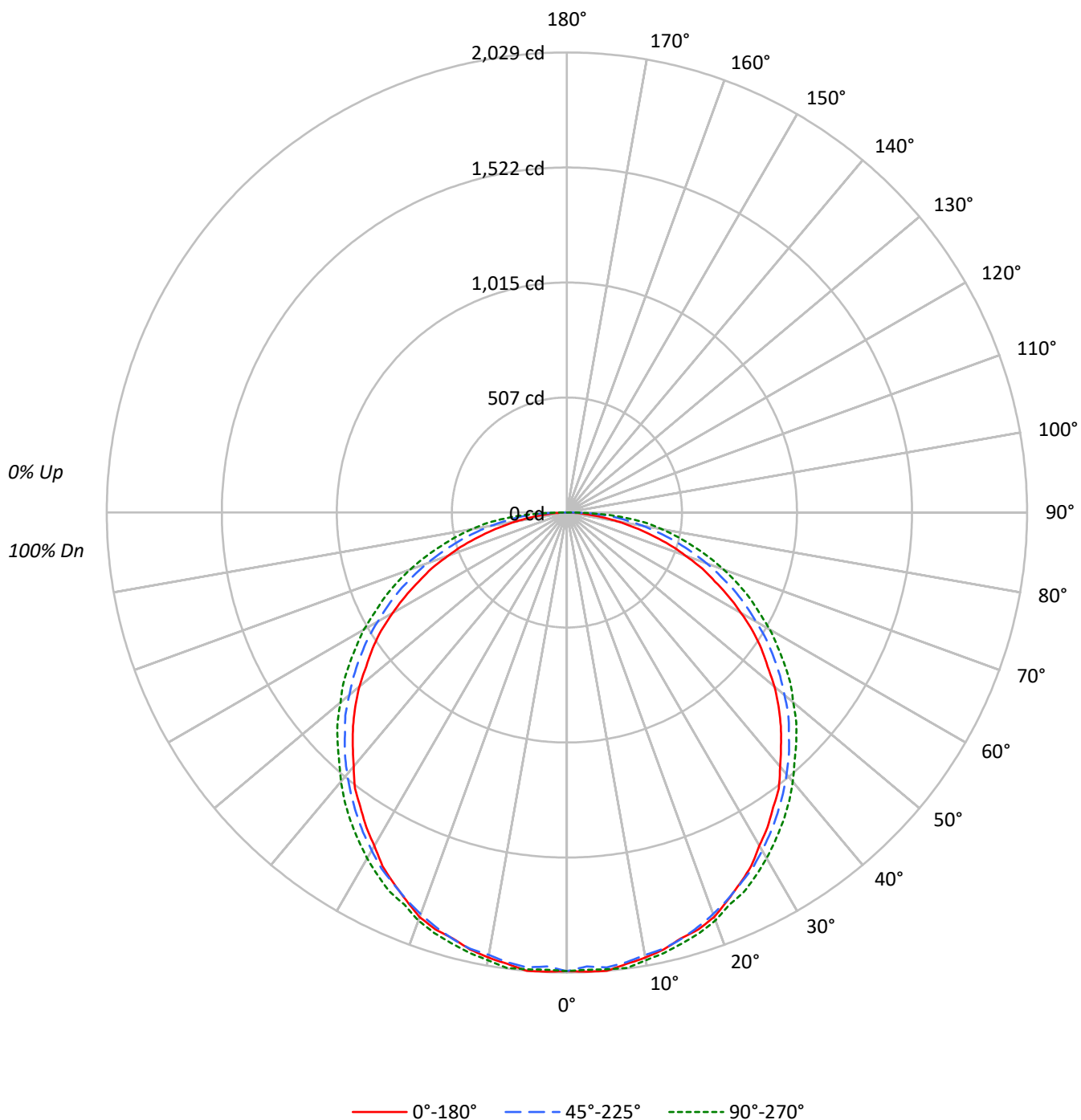
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6174.0 lumens
Efficiency: N/A
Efficacy: 128.9 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): 47.9
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	98	94	105	100	96	92	96	93	89		92	89	87		89
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68
4	81	69	60	53	79	67	59	52	65	57	51		62	56	51		60
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		49
7	64	50	41	35	62	49	40	34	47	40	34		46	39	34		45
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3098	3098	3098
5°	3119	3096	3110
10°	3100	3081	3118
15°	3083	3088	3118
20°	3094	3073	3121
25°	3051	3056	3121
30°	3002	3044	3114
35°	2967	3027	3108
40°	2924	3012	3098
45°	2889	2998	3097
50°	2847	2984	3104
55°	2796	2973	3131
60°	2718	2953	3166
65°	2610	2953	3215
70°	2490	2933	3291
75°	2293	2940	3413
80°	2008	3000	3756
85°	1532	3457	4495

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 4983 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.1	3.1
10°-20°	552.1	8.9
20°-30°	838.6	13.6
30°-40°	1015.9	16.5
40°-50°	1068.8	17.3
50°-60°	993.8	16.1
60°-70°	800.1	13.0
70°-80°	518.3	8.4
80°-90°	194.4	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°	1582.8	25.6
0°-40°	2598.6	42.1
0°-60°	4661.2	75.5
0°-90°	6174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6174.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2023	2023	2023	2023	2023	
5°	2029	2026	2014	2026	2023	192
15°	1944	1952	1947	1971	1967	551
25°	1805	1804	1808	1839	1847	832
35°	1587	1598	1619	1647	1662	994
45°	1334	1352	1384	1414	1430	1028
55°	1047	1074	1113	1158	1172	934
65°	720	753	815	864	887	716
75°	387	426	497	554	577	412
85°	87	129	197	245	256	107
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2022.7	2022.7	2022.7	2022.7	2022.7
2.5°	2027.2	2027.2	2003.5	2028.7	2018.3
5°	2028.7	2025.7	2013.9	2025.7	2022.7
7.5°	2008.0	2010.9	2000.6	2015.3	2025.7
10°	1993.2	1996.1	1981.3	2005.0	2005.0
12.5°	1973.9	1976.9	1971.0	1993.2	1988.7
15°	1944.4	1951.8	1947.3	1971.0	1966.6
17.5°	1928.1	1922.2	1917.8	1935.5	1944.4
20°	1898.5	1885.2	1885.2	1908.9	1914.8
22.5°	1851.2	1846.8	1848.3	1877.8	1871.9
25°	1805.4	1803.9	1808.3	1839.4	1846.8
27.5°	1759.5	1756.6	1769.9	1799.5	1805.4
30°	1697.4	1703.4	1721.1	1753.6	1761.0
32.5°	1645.7	1656.0	1672.3	1703.4	1712.2
35°	1586.6	1598.4	1619.1	1647.2	1662.0
37.5°	1534.8	1542.2	1564.4	1591.0	1608.7
40°	1462.3	1481.6	1506.7	1545.2	1549.6
42.5°	1397.3	1416.5	1449.0	1490.4	1486.0
45°	1333.7	1351.5	1384.0	1413.6	1429.8
47.5°	1265.7	1282.0	1324.8	1360.3	1372.2
50°	1194.7	1215.4	1252.4	1289.4	1302.7
52.5°	1114.9	1137.1	1184.4	1224.3	1243.5
55°	1046.9	1073.5	1113.4	1157.8	1172.5
57.5°	971.4	993.6	1042.4	1086.8	1101.6
60°	887.2	913.8	964.1	1011.4	1033.6
62.5°	805.8	835.4	888.6	937.4	955.2
65°	720.1	752.6	814.7	863.5	887.2
67.5°	646.2	672.8	733.4	788.1	813.2
70°	556.0	591.4	655.0	715.6	734.9
72.5°	476.1	507.2	573.7	634.3	658.0
75°	387.4	425.8	496.8	554.5	576.7
77.5°	306.1	346.0	417.0	477.6	502.7
80°	227.7	266.2	340.1	402.2	425.8
82.5°	153.8	192.2	266.2	326.8	353.4
85°	87.2	128.6	196.7	245.4	255.8
87.5°	38.4	73.9	110.9	133.1	141.9
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	15.61	17.29	15.98	17.61	17.92	16.29	17.97	16.65	18.28	18.60
	3H	17.47	19.00	17.84	19.32	19.68	18.51	20.03	18.88	20.36	20.72
	4H	18.15	19.60	18.55	19.94	20.32	19.47	20.91	19.87	21.26	21.63
	6H	18.65	19.99	19.06	20.35	20.74	20.36	21.70	20.77	22.07	22.46
	8H	18.79	20.08	19.22	20.47	20.86	20.76	22.05	21.19	22.44	22.83
	12H	18.88	20.11	19.31	20.50	20.92	21.12	22.36	21.55	22.74	23.17
4H	2H	16.41	17.85	16.80	18.20	18.57	16.93	18.37	17.32	18.72	19.09
	3H	18.49	19.72	18.90	20.11	20.51	19.39	20.61	19.79	21.00	21.40
	4H	19.31	20.42	19.74	20.84	21.27	20.51	21.63	20.95	22.04	22.47
	6H	19.94	20.91	20.39	21.35	21.81	21.58	22.56	22.04	23.00	23.45
	8H	20.14	21.05	20.59	21.49	21.96	22.08	22.99	22.53	23.43	23.89
	12H	20.27	21.10	20.75	21.57	22.04	22.53	23.35	23.01	23.83	24.30
8H	4H	19.82	20.74	20.28	21.18	21.64	20.86	21.77	21.32	22.21	22.68
	6H	20.61	21.37	21.10	21.86	22.33	22.11	22.87	22.60	23.36	23.83
	8H	20.89	21.58	21.40	22.08	22.57	22.73	23.42	23.24	23.92	24.41
	12H	21.11	21.72	21.61	22.21	22.77	23.34	23.95	23.85	24.44	25.00
12H	4H	19.93	20.76	20.41	21.23	21.70	20.90	21.72	21.37	22.20	22.66
	6H	20.77	21.47	21.28	21.97	22.45	22.18	22.87	22.69	23.38	23.86
	8H	21.14	21.76	21.65	22.25	22.80	22.89	23.50	23.39	23.99	24.55