

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: P1588787

Luminaire Tested: 24CZSP-A-62-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588787
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-62-L940
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 5500 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

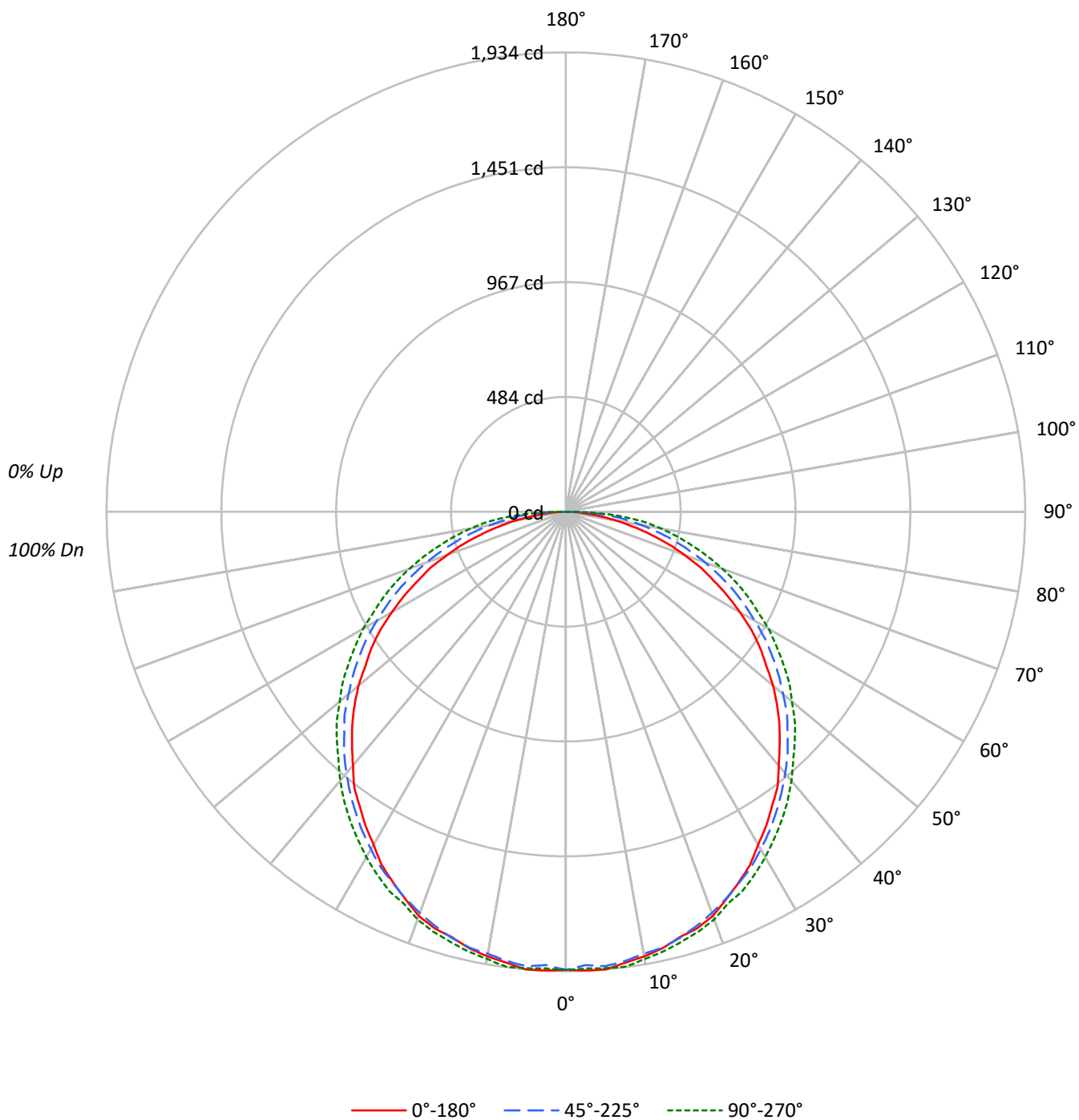
Lumens per Lamp: N/A
Luminaire Lumens: 5887.0 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 44.5
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	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°	2954	2954	2954
5°	2974	2952	2965
10°	2956	2938	2973
15°	2940	2944	2973
20°	2951	2930	2976
25°	2909	2914	2976
30°	2862	2902	2970
35°	2829	2887	2963
40°	2788	2873	2954
45°	2755	2858	2953
50°	2714	2846	2960
55°	2666	2835	2985
60°	2591	2816	3019
65°	2488	2815	3066
70°	2374	2797	3138
75°	2186	2803	3254
80°	1915	2860	3581
85°	1462	3295	4286

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 4751 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.1	3.1
10°-20°	526.4	8.9
20°-30°	799.6	13.6
30°-40°	968.7	16.5
40°-50°	1019.1	17.3
50°-60°	947.5	16.1
60°-70°	762.9	13.0
70°-80°	494.2	8.4
80°-90°	185.3	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°	1509.2	25.6
0°-40°	2477.8	42.1
0°-60°	4444.5	75.5
0°-90°	5887.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5887.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1929	1929	1929	1929	1929	
5°	1934	1932	1920	1932	1929	183
15°	1854	1861	1857	1879	1875	525
25°	1722	1720	1724	1754	1761	793
35°	1513	1524	1544	1571	1585	948
45°	1272	1289	1320	1348	1363	980
55°	998	1024	1062	1104	1118	890
65°	687	718	777	823	846	683
75°	369	406	474	529	550	393
85°	83	123	188	234	244	102
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1928.7	1928.7	1928.7	1928.7	1928.7
2.5°	1932.9	1932.9	1910.4	1934.4	1924.5
5°	1934.4	1931.5	1920.3	1931.5	1928.7
7.5°	1914.6	1917.4	1907.6	1921.7	1931.5
10°	1900.5	1903.3	1889.2	1911.8	1911.8
12.5°	1882.2	1885.0	1879.4	1900.5	1896.3
15°	1854.0	1861.0	1856.8	1879.4	1875.1
17.5°	1838.5	1832.8	1828.6	1845.5	1854.0
20°	1810.3	1797.6	1797.6	1820.2	1825.8
22.5°	1765.2	1760.9	1762.3	1790.5	1784.9
25°	1721.5	1720.1	1724.3	1753.9	1760.9
27.5°	1677.8	1674.9	1687.6	1715.8	1721.5
30°	1618.5	1624.2	1641.1	1672.1	1679.2
32.5°	1569.2	1579.1	1594.6	1624.2	1632.6
35°	1512.8	1524.1	1543.8	1570.6	1584.7
37.5°	1463.5	1470.5	1491.7	1517.0	1533.9
40°	1394.4	1412.7	1436.7	1473.3	1477.6
42.5°	1332.3	1350.7	1381.7	1421.2	1416.9
45°	1271.7	1288.6	1319.6	1347.8	1363.4
47.5°	1206.9	1222.4	1263.3	1297.1	1308.4
50°	1139.2	1158.9	1194.2	1229.4	1242.1
52.5°	1063.0	1084.2	1129.3	1167.4	1185.7
55°	998.2	1023.6	1061.6	1103.9	1118.0
57.5°	926.3	947.4	994.0	1036.3	1050.4
60°	845.9	871.3	919.2	964.4	985.5
62.5°	768.4	796.6	847.3	893.9	910.8
65°	686.6	717.6	776.8	823.4	845.9
67.5°	616.1	641.5	699.3	751.5	775.4
70°	530.1	564.0	624.6	682.4	700.7
72.5°	454.0	483.6	547.0	604.8	627.4
75°	369.4	406.0	473.7	528.7	549.9
77.5°	291.8	329.9	397.6	455.4	479.4
80°	217.1	253.8	324.3	383.5	406.0
82.5°	146.6	183.3	253.8	311.6	337.0
85°	83.2	122.7	187.5	234.0	243.9
87.5°	36.7	70.5	105.7	126.9	135.3
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	15.45	17.13	15.81	17.44	17.76	16.12	17.80	16.49	18.12	18.43
	3H	17.30	18.83	17.68	19.16	19.51	18.34	19.87	18.72	20.19	20.55
	4H	17.99	19.43	18.39	19.78	20.15	19.30	20.75	19.70	21.09	21.47
	6H	18.48	19.82	18.89	20.19	20.58	20.20	21.54	20.61	21.90	22.29
	8H	18.63	19.91	19.05	20.30	20.70	20.60	21.88	21.02	22.27	22.67
	12H	18.72	19.95	19.15	20.33	20.76	20.96	22.19	21.39	22.57	23.00
4H	2H	16.24	17.68	16.64	18.03	18.41	16.76	18.20	17.16	18.55	18.93
	3H	18.33	19.55	18.74	19.95	20.34	19.22	20.44	19.63	20.84	21.24
	4H	19.15	20.26	19.58	20.67	21.10	20.35	21.46	20.78	21.87	22.31
	6H	19.77	20.75	20.22	21.19	21.64	21.42	22.40	21.87	22.83	23.29
	8H	19.97	20.89	20.43	21.33	21.79	21.91	22.83	22.37	23.27	23.73
	12H	20.11	20.93	20.58	21.41	21.87	22.36	23.19	22.84	23.66	24.13
8H	4H	19.66	20.57	20.11	21.01	21.48	20.69	21.61	21.15	22.05	22.51
	6H	20.44	21.21	20.93	21.69	22.17	21.94	22.71	22.43	23.19	23.67
	8H	20.73	21.42	21.23	21.92	22.40	22.57	23.26	23.07	23.76	24.24
	12H	20.94	21.56	21.45	22.04	22.60	23.18	23.79	23.68	24.28	24.83
12H	4H	19.76	20.59	20.24	21.06	21.53	20.73	21.56	21.21	22.03	22.50
	6H	20.61	21.30	21.11	21.80	22.29	22.02	22.71	22.52	23.21	23.69
	8H	20.98	21.59	21.48	22.08	22.64	22.72	23.33	23.23	23.82	24.38