

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: P1588463

Luminaire Tested: 24CZSP-65-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588463
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-65-L930
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 6000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

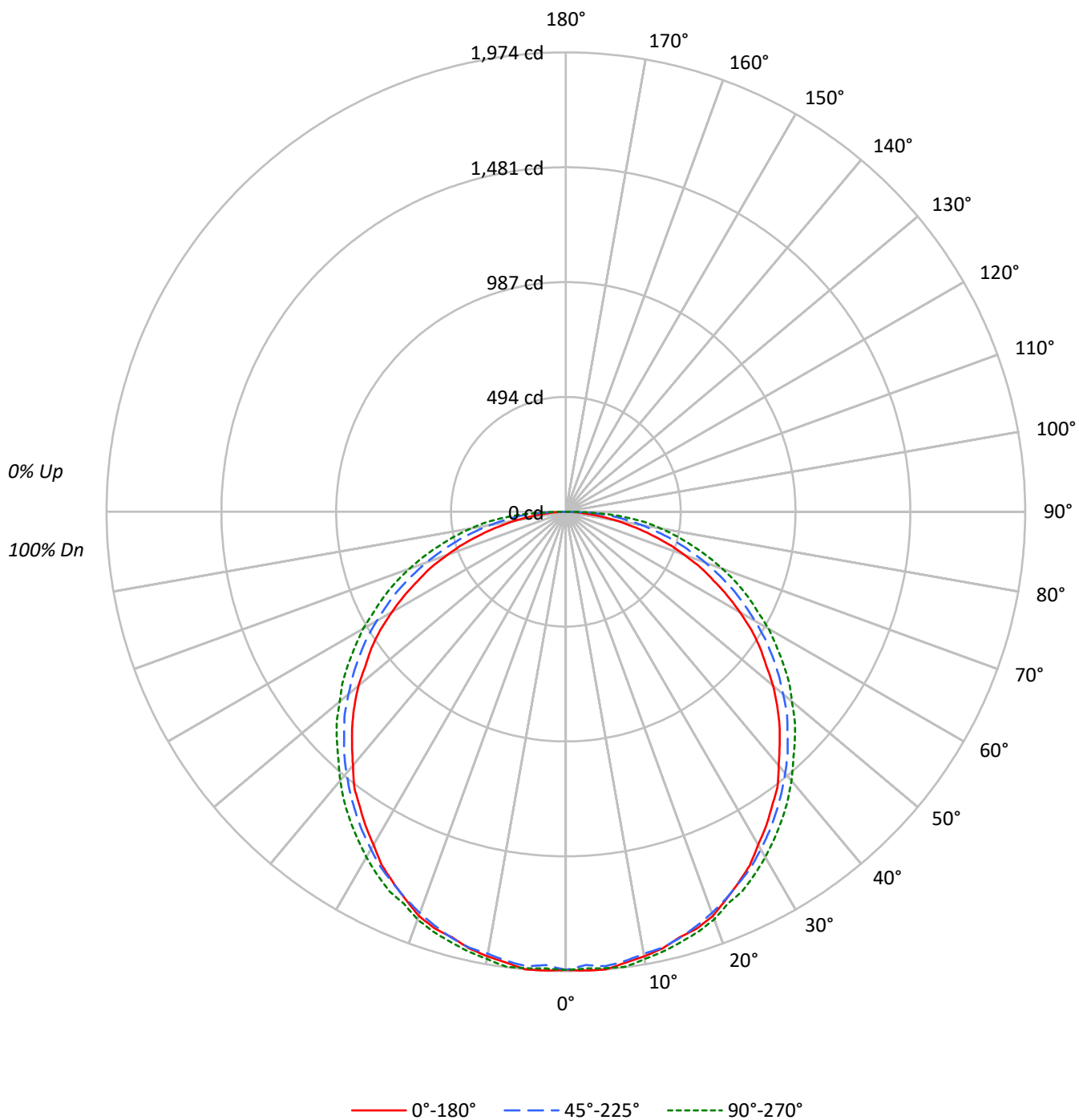
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6009.0 lumens
Efficiency: N/A
Efficacy: 125.4 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°	3015	3015	3015
5°	3036	3013	3027
10°	3017	2999	3035
15°	3001	3005	3035
20°	3012	2991	3038
25°	2969	2974	3038
30°	2922	2963	3031
35°	2887	2946	3024
40°	2846	2932	3015
45°	2812	2918	3014
50°	2771	2904	3021
55°	2721	2894	3047
60°	2645	2874	3081
65°	2540	2874	3129
70°	2423	2855	3203
75°	2231	2861	3321
80°	1955	2920	3656
85°	1492	3364	4376

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 4853 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.9	3.1
10°-20°	537.3	8.9
20°-30°	816.2	13.6
30°-40°	988.7	16.5
40°-50°	1040.2	17.3
50°-60°	967.2	16.1
60°-70°	778.7	13.0
70°-80°	504.5	8.4
80°-90°	189.2	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°	1540.5	25.6
0°-40°	2529.2	42.1
0°-60°	4536.6	75.5
0°-90°	6009.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6009.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1969	1969	1969	1969	1969	
5°	1974	1972	1960	1972	1969	187
15°	1892	1900	1895	1918	1914	536
25°	1757	1756	1760	1790	1797	810
35°	1544	1556	1576	1603	1618	967
45°	1298	1315	1347	1376	1392	1001
55°	1019	1045	1084	1127	1141	909
65°	701	732	793	840	864	697
75°	377	414	484	540	561	401
85°	85	125	191	239	249	104
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1968.7	1968.7	1968.7	1968.7	1968.7
2.5°	1973.0	1973.0	1950.0	1974.4	1964.4
5°	1974.4	1971.6	1960.0	1971.6	1968.7
7.5°	1954.3	1957.2	1947.1	1961.5	1971.6
10°	1939.9	1942.8	1928.4	1951.4	1951.4
12.5°	1921.2	1924.1	1918.3	1939.9	1935.6
15°	1892.4	1899.6	1895.3	1918.3	1914.0
17.5°	1876.6	1870.8	1866.5	1883.8	1892.4
20°	1847.8	1834.8	1834.8	1857.9	1863.6
22.5°	1801.7	1797.4	1798.9	1827.7	1821.9
25°	1757.1	1755.7	1760.0	1790.2	1797.4
27.5°	1712.5	1709.6	1722.6	1751.4	1757.1
30°	1652.1	1657.8	1675.1	1706.8	1714.0
32.5°	1601.7	1611.8	1627.6	1657.8	1666.5
35°	1544.2	1555.7	1575.8	1603.2	1617.5
37.5°	1493.8	1501.0	1522.6	1548.5	1565.7
40°	1423.3	1442.0	1466.4	1503.9	1508.2
42.5°	1359.9	1378.7	1410.3	1450.6	1446.3
45°	1298.1	1315.3	1347.0	1375.8	1391.6
47.5°	1231.9	1247.7	1289.4	1324.0	1335.5
50°	1162.8	1182.9	1218.9	1254.9	1267.8
52.5°	1085.1	1106.7	1152.7	1191.6	1210.3
55°	1018.9	1044.8	1083.6	1126.8	1141.2
57.5°	945.5	967.1	1014.6	1057.7	1072.1
60°	863.5	889.4	938.3	984.3	1005.9
62.5°	784.3	813.1	864.9	912.4	929.7
65°	700.8	732.5	792.9	840.4	863.5
67.5°	628.9	654.8	713.8	767.0	791.5
70°	541.1	575.6	637.5	696.5	715.2
72.5°	463.4	493.6	558.4	617.4	640.4
75°	377.0	414.5	483.5	539.7	561.2
77.5°	297.9	336.7	405.8	464.8	489.3
80°	221.6	259.0	331.0	391.4	414.5
82.5°	149.7	187.1	259.0	318.0	343.9
85°	84.9	125.2	191.4	238.9	249.0
87.5°	37.4	72.0	107.9	129.5	138.2
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	15.52	17.20	15.88	17.51	17.83	16.19	17.87	16.56	18.19	18.50
	3H	17.37	18.90	17.75	19.23	19.59	18.41	19.94	18.79	20.27	20.62
	4H	18.06	19.50	18.46	19.85	20.22	19.37	20.82	19.77	21.17	21.54
	6H	18.55	19.89	18.96	20.26	20.65	20.27	21.61	20.68	21.97	22.36
	8H	18.70	19.98	19.12	20.37	20.77	20.67	21.95	21.09	22.34	22.74
	12H	18.79	20.02	19.22	20.40	20.83	21.03	22.26	21.46	22.64	23.07
4H	2H	16.31	17.76	16.71	18.10	18.48	16.83	18.28	17.23	18.62	19.00
	3H	18.40	19.62	18.81	20.02	20.42	19.29	20.51	19.70	20.91	21.31
	4H	19.22	20.33	19.65	20.74	21.18	20.42	21.53	20.85	21.94	22.38
	6H	19.84	20.82	20.30	21.26	21.71	21.49	22.47	21.94	22.91	23.36
	8H	20.04	20.96	20.50	21.40	21.86	21.98	22.90	22.44	23.34	23.80
	12H	20.18	21.00	20.65	21.48	21.94	22.43	23.26	22.91	23.73	24.20
8H	4H	19.73	20.64	20.19	21.08	21.55	20.76	21.68	21.22	22.12	22.58
	6H	20.51	21.28	21.00	21.77	22.24	22.01	22.78	22.50	23.27	23.74
	8H	20.80	21.49	21.30	21.99	22.47	22.64	23.33	23.14	23.83	24.31
	12H	21.01	21.63	21.52	22.12	22.67	23.25	23.86	23.75	24.35	24.91
12H	4H	19.84	20.66	20.31	21.14	21.60	20.80	21.63	21.28	22.10	22.57
	6H	20.68	21.37	21.19	21.88	22.36	22.09	22.78	22.59	23.28	23.77
	8H	21.05	21.66	21.55	22.15	22.71	22.79	23.40	23.30	23.89	24.45