

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: P1588465

Luminaire Tested: 24CZSP-65-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588465
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-L935
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 6000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

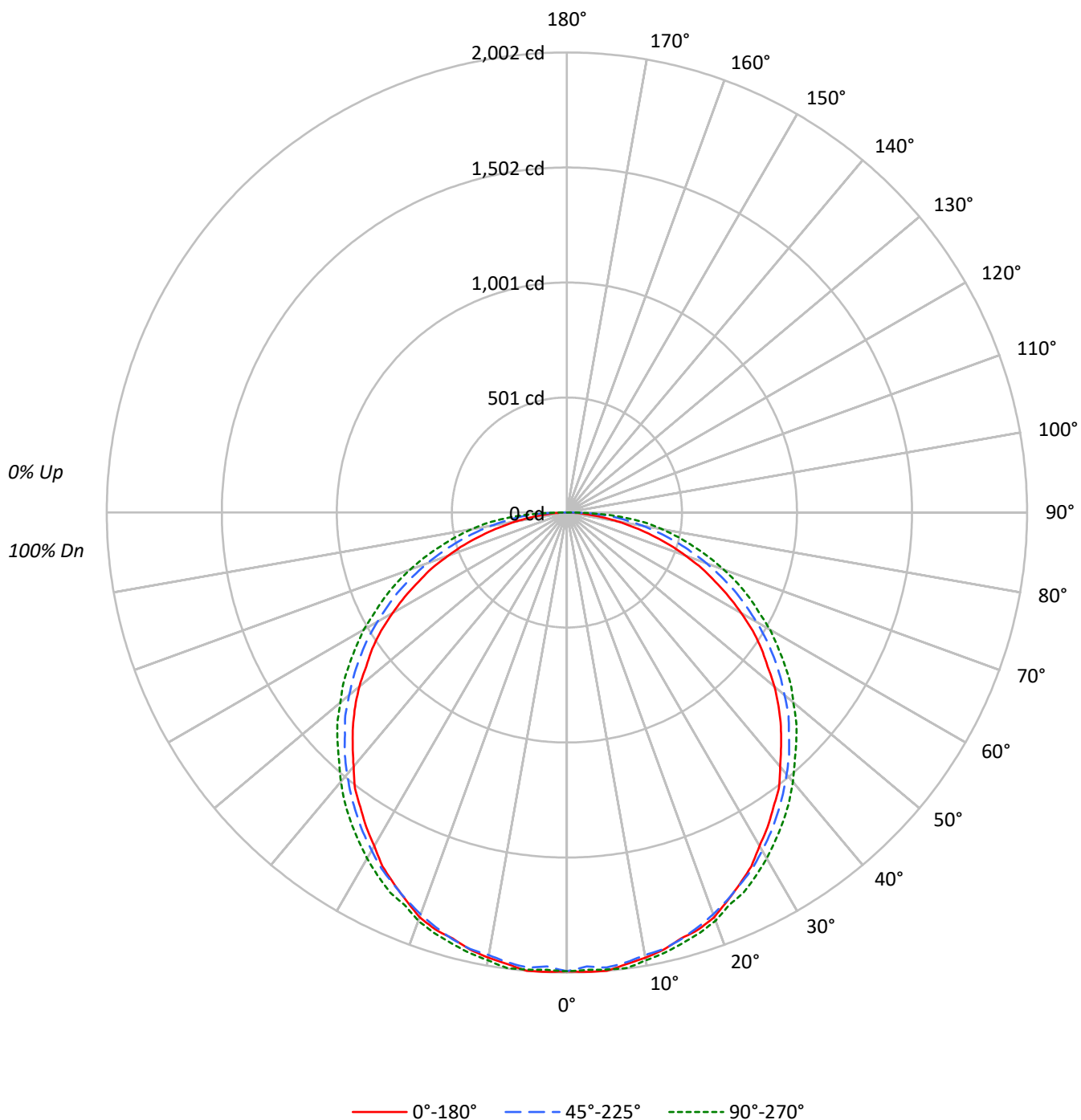
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6094.0 lumens
Efficiency: N/A
Efficacy: 127.2 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°	3058	3058	3058
5°	3079	3056	3070
10°	3060	3042	3078
15°	3043	3048	3078
20°	3054	3033	3081
25°	3012	3016	3081
30°	2963	3004	3074
35°	2928	2988	3067
40°	2886	2974	3058
45°	2851	2959	3057
50°	2810	2946	3064
55°	2759	2935	3090
60°	2682	2915	3125
65°	2576	2915	3174
70°	2458	2895	3248
75°	2263	2902	3368
80°	1983	2961	3707
85°	1513	3411	4437

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 4919 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	3.1
10°-20°	544.9	8.9
20°-30°	827.8	13.6
30°-40°	1002.7	16.5
40°-50°	1054.9	17.3
50°-60°	980.9	16.1
60°-70°	789.8	13.0
70°-80°	511.6	8.4
80°-90°	191.9	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°	1562.3	25.6
0°-40°	2565.0	42.1
0°-60°	4600.8	75.5
0°-90°	6094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1996	1996	1996	1996	1996	
5°	2002	2000	1988	2000	1996	190
15°	1919	1926	1922	1946	1941	544
25°	1782	1780	1785	1816	1823	821
35°	1566	1578	1598	1626	1640	981
45°	1316	1334	1366	1395	1411	1015
55°	1033	1060	1099	1143	1157	922
65°	711	743	804	852	876	707
75°	382	420	490	547	569	406
85°	86	127	194	242	252	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1996.5	1996.5	1996.5	1996.5	1996.5
2.5°	2000.9	2000.9	1977.6	2002.4	1992.2
5°	2002.4	1999.5	1987.8	1999.5	1996.5
7.5°	1981.9	1984.9	1974.6	1989.2	1999.5
10°	1967.3	1970.3	1955.7	1979.0	1979.0
12.5°	1948.4	1951.3	1945.5	1967.3	1963.0
15°	1919.2	1926.5	1922.1	1945.5	1941.1
17.5°	1903.1	1897.3	1892.9	1910.4	1919.2
20°	1873.9	1860.8	1860.8	1884.2	1890.0
22.5°	1827.2	1822.9	1824.3	1853.5	1847.7
25°	1782.0	1780.5	1784.9	1815.6	1822.9
27.5°	1736.7	1733.8	1747.0	1776.2	1782.0
30°	1675.5	1681.3	1698.8	1730.9	1738.2
32.5°	1624.4	1634.6	1650.6	1681.3	1690.0
35°	1566.0	1577.7	1598.1	1625.8	1640.4
37.5°	1514.9	1522.2	1544.1	1570.4	1587.9
40°	1443.4	1462.4	1487.2	1525.1	1529.5
42.5°	1379.2	1398.2	1430.3	1471.1	1466.8
45°	1316.4	1333.9	1366.0	1395.2	1411.3
47.5°	1249.3	1265.3	1307.7	1342.7	1354.4
50°	1179.2	1199.7	1236.2	1272.6	1285.8
52.5°	1100.4	1122.3	1169.0	1208.4	1227.4
55°	1033.3	1059.6	1099.0	1142.8	1157.3
57.5°	958.9	980.8	1028.9	1072.7	1087.3
60°	875.7	901.9	951.6	998.3	1020.2
62.5°	795.4	824.6	877.1	925.3	942.8
65°	710.8	742.9	804.2	852.3	875.7
67.5°	637.8	664.1	723.9	777.9	802.7
70°	548.8	583.8	646.5	706.4	725.3
72.5°	469.9	500.6	566.3	626.1	649.5
75°	382.4	420.3	490.4	547.3	569.2
77.5°	302.1	341.5	411.6	471.4	496.2
80°	224.8	262.7	335.7	397.0	420.3
82.5°	151.8	189.7	262.7	322.5	348.8
85°	86.1	127.0	194.1	242.3	252.5
87.5°	37.9	73.0	109.5	131.4	140.1
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	15.57	17.25	15.93	17.56	17.88	16.24	17.92	16.61	18.24	18.55
	3H	17.42	18.95	17.80	19.28	19.64	18.46	19.99	18.84	20.31	20.67
	4H	18.11	19.55	18.51	19.90	20.27	19.42	20.87	19.82	21.21	21.59
	6H	18.60	19.94	19.01	20.31	20.70	20.32	21.66	20.73	22.02	22.41
	8H	18.75	20.03	19.17	20.42	20.82	20.72	22.00	21.14	22.39	22.79
	12H	18.84	20.07	19.27	20.45	20.88	21.08	22.31	21.51	22.69	23.12
4H	2H	16.36	17.81	16.76	18.15	18.53	16.88	18.32	17.28	18.67	19.05
	3H	18.45	19.67	18.86	20.07	20.47	19.34	20.56	19.75	20.96	21.36
	4H	19.27	20.38	19.70	20.79	21.22	20.47	21.58	20.90	21.99	22.43
	6H	19.89	20.87	20.35	21.31	21.76	21.54	22.52	21.99	22.95	23.41
	8H	20.09	21.01	20.55	21.45	21.91	22.03	22.95	22.49	23.39	23.85
	12H	20.23	21.05	20.70	21.53	21.99	22.48	23.31	22.96	23.78	24.25
8H	4H	19.78	20.69	20.23	21.13	21.60	20.81	21.73	21.27	22.17	22.63
	6H	20.56	21.33	21.05	21.81	22.29	22.06	22.83	22.55	23.31	23.79
	8H	20.85	21.54	21.35	22.04	22.52	22.69	23.38	23.19	23.88	24.36
	12H	21.06	21.68	21.57	22.16	22.72	23.30	23.91	23.80	24.40	24.95
12H	4H	19.88	20.71	20.36	21.18	21.65	20.85	21.68	21.33	22.15	22.62
	6H	20.73	21.42	21.23	21.92	22.41	22.14	22.83	22.64	23.33	23.81
	8H	21.10	21.71	21.60	22.20	22.76	22.84	23.45	23.35	23.94	24.50