

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: P1588464

Luminaire Tested: 24CZSP-65-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588464
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-65-L935-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 6000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

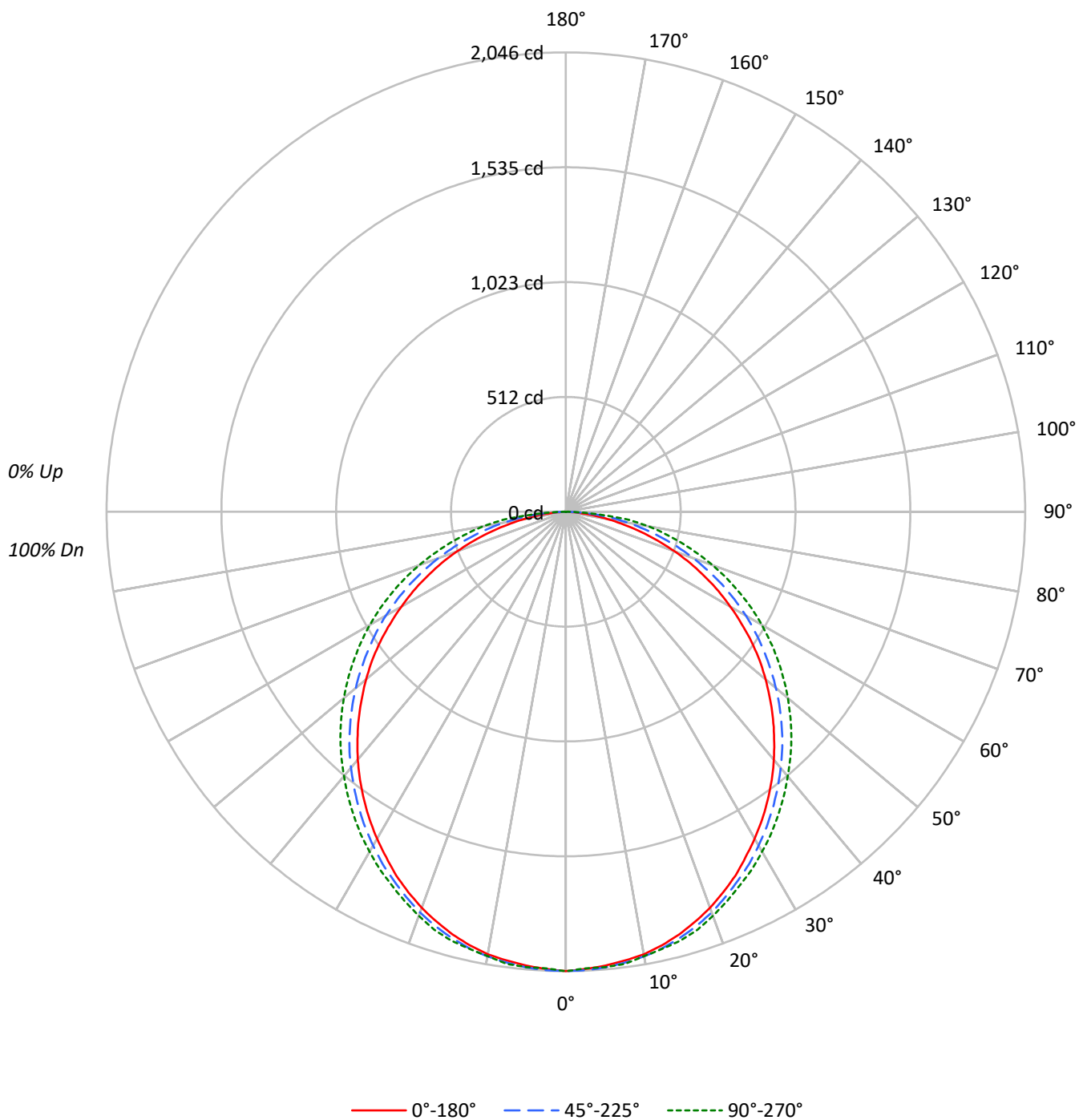
Lumens per Lamp: N/A
Luminaire Lumens: 5973.0 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	30	10	50	30	10
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°	3134	3134	3134
5°	3119	3131	3129
10°	3113	3127	3125
15°	3090	3115	3134
20°	3059	3095	3121
25°	3021	3063	3101
30°	2974	3036	3092
35°	2931	3007	3083
40°	2883	2977	3074
45°	2828	2947	3077
50°	2767	2911	3076
55°	2695	2870	3080
60°	2594	2838	3087
65°	2475	2783	3097
70°	2307	2706	3111
75°	2055	2598	3141
80°	1700	2474	3294
85°	1105	2234	2879

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3399 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.5	3.2
10°-20°	554.0	9.3
20°-30°	835.6	14.0
30°-40°	1006.4	16.8
40°-50°	1051.1	17.6
50°-60°	965.3	16.2
60°-70°	760.3	12.7
70°-80°	466.4	7.8
80°-90°	140.4	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°	1583.1	26.5
0°-40°	2589.5	43.4
0°-60°	4605.9	77.1
0°-90°	5973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5973.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2046	2046	2046	2046	2046	
5°	2029	2032	2037	2043	2035	193
15°	1949	1953	1965	1976	1976	550
25°	1788	1792	1813	1835	1835	823
35°	1568	1575	1608	1641	1649	980
45°	1305	1320	1360	1408	1421	1006
55°	1009	1028	1075	1135	1153	901
65°	683	706	768	832	854	676
75°	347	375	439	508	531	368
85°	63	86	127	161	164	82
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2045.9	2045.9	2045.9	2045.9	2045.9
2.5°	2038.0	2042.0	2043.3	2044.6	2035.4
5°	2028.9	2031.5	2036.7	2043.3	2035.4
7.5°	2015.8	2018.4	2024.9	2034.1	2030.2
10°	2001.4	2002.7	2010.5	2017.1	2009.2
12.5°	1977.8	1981.7	1990.9	1996.1	1993.5
15°	1948.9	1952.9	1964.7	1976.4	1976.4
17.5°	1914.8	1920.1	1934.5	1950.2	1951.5
20°	1876.8	1880.8	1899.1	1914.8	1914.8
22.5°	1833.6	1838.8	1857.2	1874.2	1876.8
25°	1787.7	1791.6	1812.6	1834.9	1834.9
27.5°	1734.0	1741.8	1768.1	1790.3	1795.6
30°	1681.6	1688.1	1716.9	1744.5	1748.4
32.5°	1626.5	1634.4	1664.5	1694.7	1701.2
35°	1567.5	1575.4	1608.2	1640.9	1648.8
37.5°	1505.9	1515.1	1549.2	1587.2	1595.1
40°	1441.7	1452.2	1488.9	1529.5	1537.4
42.5°	1373.6	1388.0	1427.3	1469.2	1481.0
45°	1305.4	1319.8	1360.4	1407.6	1420.7
47.5°	1233.3	1250.4	1292.3	1342.1	1356.5
50°	1161.2	1178.3	1221.5	1275.3	1291.0
52.5°	1087.8	1104.9	1149.4	1205.8	1222.8
55°	1009.2	1027.5	1074.7	1135.0	1153.4
57.5°	927.9	951.5	1001.3	1062.9	1081.3
60°	846.7	870.3	926.6	986.9	1007.9
62.5°	766.7	789.0	846.7	910.9	933.2
65°	682.8	706.4	768.0	832.3	854.5
67.5°	600.3	623.9	685.5	752.3	775.9
70°	515.1	541.3	604.2	671.0	694.6
72.5°	429.9	457.4	521.6	589.8	612.1
75°	347.3	374.8	439.1	508.5	530.8
77.5°	266.1	296.2	359.1	429.9	450.9
80°	192.7	221.5	280.5	349.9	373.5
82.5°	123.2	148.1	207.1	272.6	289.7
85°	62.9	86.5	127.1	161.2	163.8
87.5°	19.7	27.5	41.9	62.9	64.2
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	15.45	17.11	15.81	17.42	17.74	16.28	17.94	16.64	18.25	18.57
	3H	17.20	18.71	17.58	19.04	19.40	18.39	19.90	18.77	20.23	20.59
	4H	17.82	19.24	18.22	19.59	19.96	19.28	20.70	19.68	21.05	21.43
	6H	18.23	19.55	18.64	19.92	20.31	20.06	21.38	20.47	21.75	22.14
	8H	18.34	19.60	18.76	19.99	20.39	20.38	21.65	20.81	22.03	22.43
	12H	18.39	19.60	18.82	19.98	20.41	20.59	21.80	21.02	22.19	22.61
4H	2H	16.22	17.64	16.62	17.99	18.36	16.86	18.29	17.26	18.63	19.01
	3H	18.20	19.39	18.60	19.79	20.19	19.22	20.42	19.63	20.81	21.21
	4H	18.93	20.02	19.36	20.43	20.87	20.27	21.36	20.70	21.77	22.20
	6H	19.46	20.41	19.91	20.85	21.31	21.22	22.18	21.68	22.62	23.07
	8H	19.61	20.50	20.07	20.94	21.40	21.62	22.51	22.08	22.95	23.42
	12H	19.69	20.49	20.17	20.97	21.44	21.90	22.70	22.38	23.18	23.64
8H	4H	19.39	20.28	19.85	20.72	21.19	20.56	21.45	21.02	21.89	22.36
	6H	20.05	20.80	20.54	21.28	21.76	21.67	22.42	22.16	22.90	23.38
	8H	20.26	20.93	20.77	21.44	21.92	22.18	22.85	22.69	23.36	23.84
	12H	20.40	20.99	20.91	21.48	22.04	22.57	23.16	23.07	23.65	24.21
12H	4H	19.48	20.28	19.96	20.76	21.23	20.58	21.39	21.06	21.86	22.33
	6H	20.18	20.85	20.69	21.36	21.84	21.72	22.39	22.23	22.89	23.38
	8H	20.46	21.05	20.97	21.54	22.10	22.30	22.89	22.80	23.38	23.94