

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: P1588825

Luminaire Tested: 24CZSP-A-65VHE-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-776-5)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-65VHE-L935
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 7000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

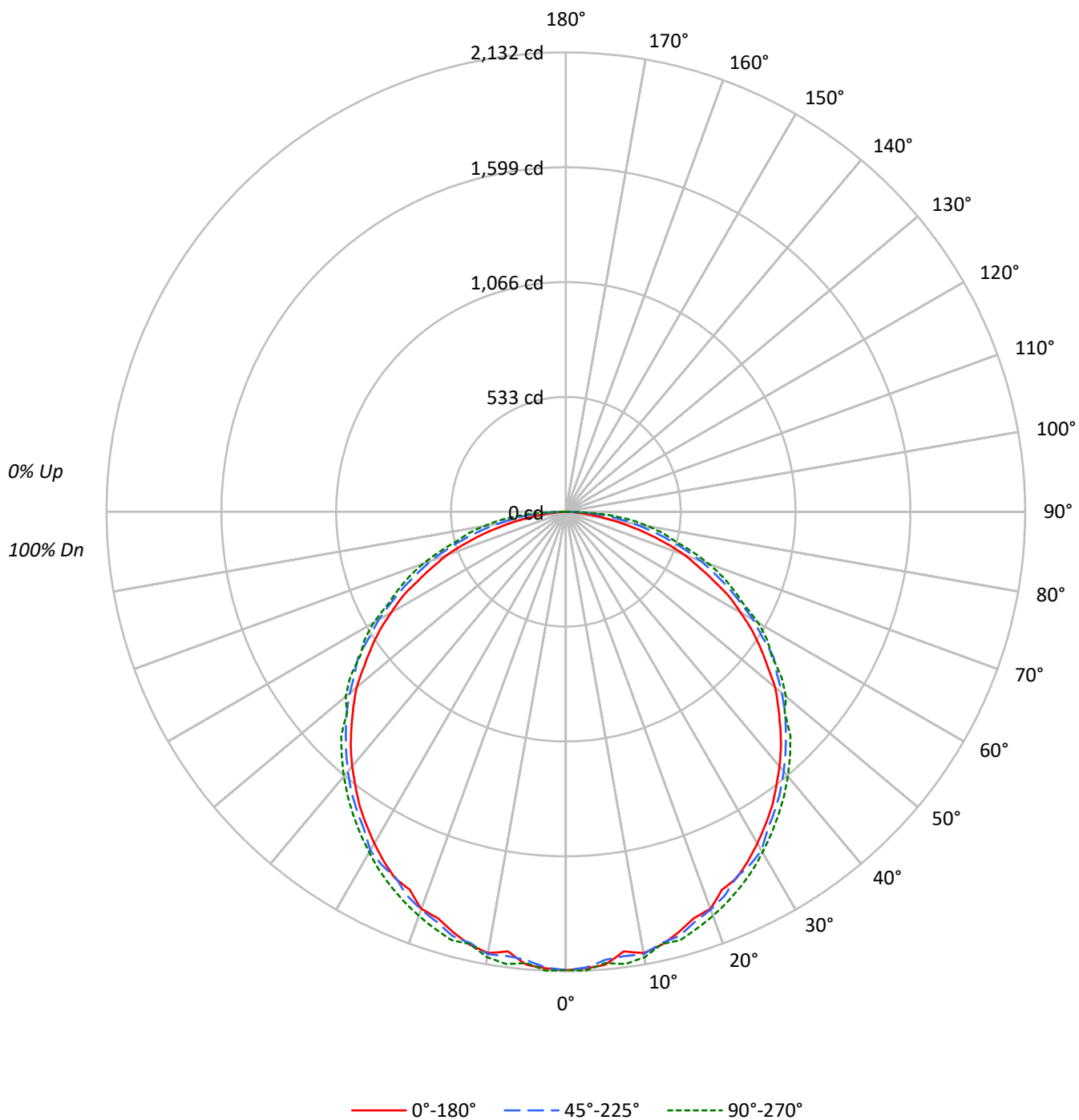
Lumens per Lamp: N/A
Luminaire Lumens: 6350.0 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 50.1
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	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	88	81	75	84	78	74		81	76	72		78
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61
5	75	62	52	46	73	60	52	45	58	51	45		56	50	44		54
6	69	55	46	40	67	54	46	39	53	45	39		51	44	39		49
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3258	3258	3258
5°	3244	3211	3232
10°	3234	3242	3265
15°	3204	3230	3262
20°	3197	3202	3253
25°	3171	3162	3244
30°	3143	3210	3229
35°	3119	3163	3215
40°	3085	3145	3204
45°	3046	3128	3192
50°	3021	3116	3178
55°	2945	3143	3111
60°	2870	3077	3156
65°	2741	3010	3114
70°	2628	2984	3158
75°	2327	2895	3094
80°	1837	2829	3423
85°	1125	3023	3903

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 3903 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.9	3.2
10°-20°	573.8	9.0
20°-30°	874.3	13.8
30°-40°	1064.2	16.8
40°-50°	1115.8	17.6
50°-60°	1033.7	16.3
60°-70°	815.1	12.8
70°-80°	504.3	7.9
80°-90°	167.9	2.6
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°	1649.0	26.0
0°-40°	2713.2	42.7
0°-60°	4862.7	76.6
0°-90°	6350.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6350.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2127	2127	2127	2127	2127	
5°	2110	2109	2088	2134	2102	199
15°	2021	2031	2037	2023	2057	570
25°	1876	1887	1871	1923	1920	862
35°	1668	1684	1692	1724	1719	1042
45°	1406	1432	1444	1461	1474	1086
55°	1103	1136	1177	1188	1165	986
65°	756	786	831	862	859	753
75°	393	424	489	526	523	415
85°	64	109	172	209	222	86
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2127.1	2127.1	2127.1	2127.1	2127.1
2.5°	2121.1	2134.1	2117.6	2131.5	2131.5
5°	2109.9	2109.0	2088.3	2134.1	2102.1
7.5°	2058.0	2094.3	2079.6	2135.8	2116.8
10°	2079.6	2070.1	2084.8	2122.8	2099.5
12.5°	2058.0	2073.6	2050.2	2031.2	2055.4
15°	2020.8	2031.2	2037.3	2022.6	2057.1
17.5°	1976.8	2015.6	1994.9	1988.0	2027.7
20°	1961.2	1962.9	1964.7	2000.1	1995.8
22.5°	1897.2	1931.8	1927.5	1956.0	1959.5
25°	1876.5	1886.9	1871.3	1923.2	1919.7
27.5°	1828.9	1851.4	1848.8	1866.1	1875.6
30°	1777.1	1799.6	1815.1	1796.1	1825.5
32.5°	1723.5	1761.5	1744.2	1779.7	1773.6
35°	1668.2	1683.7	1691.5	1723.5	1719.2
37.5°	1604.2	1631.0	1635.3	1683.7	1663.0
40°	1542.9	1569.6	1573.1	1601.6	1602.5
42.5°	1478.0	1491.0	1509.1	1542.0	1539.4
45°	1406.3	1432.2	1444.3	1460.7	1473.7
47.5°	1337.1	1364.8	1380.4	1407.1	1376.9
50°	1268.0	1287.9	1307.7	1336.3	1333.7
52.5°	1180.7	1225.6	1235.1	1250.7	1261.1
55°	1102.9	1135.7	1177.2	1187.6	1165.1
57.5°	1024.2	1049.3	1079.6	1111.5	1109.0
60°	936.9	967.2	1004.4	1028.6	1030.3
62.5°	857.4	878.2	913.6	949.0	930.9
65°	756.3	785.7	830.6	861.7	859.2
67.5°	666.4	698.4	744.2	784.8	786.6
70°	586.9	604.2	666.4	697.5	705.3
72.5°	489.2	519.5	574.8	609.4	612.8
75°	393.3	424.4	489.2	526.4	522.9
77.5°	295.6	340.6	403.6	447.7	462.4
80°	208.3	248.9	320.7	363.9	388.1
82.5°	131.4	173.7	243.7	297.3	312.0
85°	64.0	108.9	172.0	209.2	222.1
87.5°	16.4	44.9	79.5	97.7	105.4
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	15.91	17.58	16.27	17.89	18.21	16.34	18.01	16.70	18.32	18.64
	3H	17.71	19.22	18.08	19.55	19.91	18.41	19.93	18.79	20.25	20.61
	4H	18.35	19.78	18.75	20.13	20.50	19.25	20.68	19.65	21.03	21.40
	6H	18.76	20.09	19.17	20.45	20.84	20.04	21.37	20.45	21.73	22.12
	8H	18.86	20.13	19.29	20.52	20.92	20.39	21.66	20.81	22.05	22.44
	12H	18.91	20.13	19.34	20.51	20.94	20.68	21.90	21.11	22.28	22.71
4H	2H	16.64	18.08	17.04	18.42	18.80	16.98	18.41	17.38	18.76	19.13
	3H	18.68	19.89	19.09	20.28	20.68	19.29	20.50	19.70	20.90	21.30
	4H	19.45	20.55	19.88	20.96	21.39	20.30	21.39	20.73	21.81	22.24
	6H	19.99	20.95	20.44	21.39	21.84	21.25	22.21	21.70	22.65	23.10
	8H	20.13	21.03	20.59	21.47	21.94	21.67	22.57	22.13	23.02	23.48
	12H	20.21	21.02	20.69	21.50	21.97	22.05	22.87	22.53	23.34	23.81
8H	4H	19.90	20.80	20.36	21.24	21.71	20.64	21.54	21.10	21.98	22.44
	6H	20.58	21.33	21.07	21.82	22.29	21.75	22.51	22.24	22.99	23.47
	8H	20.80	21.48	21.31	21.98	22.46	22.30	22.98	22.81	23.48	23.96
	12H	20.95	21.55	21.45	22.03	22.59	22.82	23.42	23.32	23.91	24.46
12H	4H	19.98	20.80	20.46	21.27	21.74	20.67	21.48	21.15	21.96	22.43
	6H	20.71	21.39	21.22	21.90	22.38	21.82	22.50	22.33	23.00	23.49
	8H	21.01	21.61	21.51	22.10	22.66	22.44	23.04	22.95	23.53	24.09