

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: P1588505

Luminaire Tested: 24CZSP-70VHE-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588505
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-70VHE-L935
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 7500 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

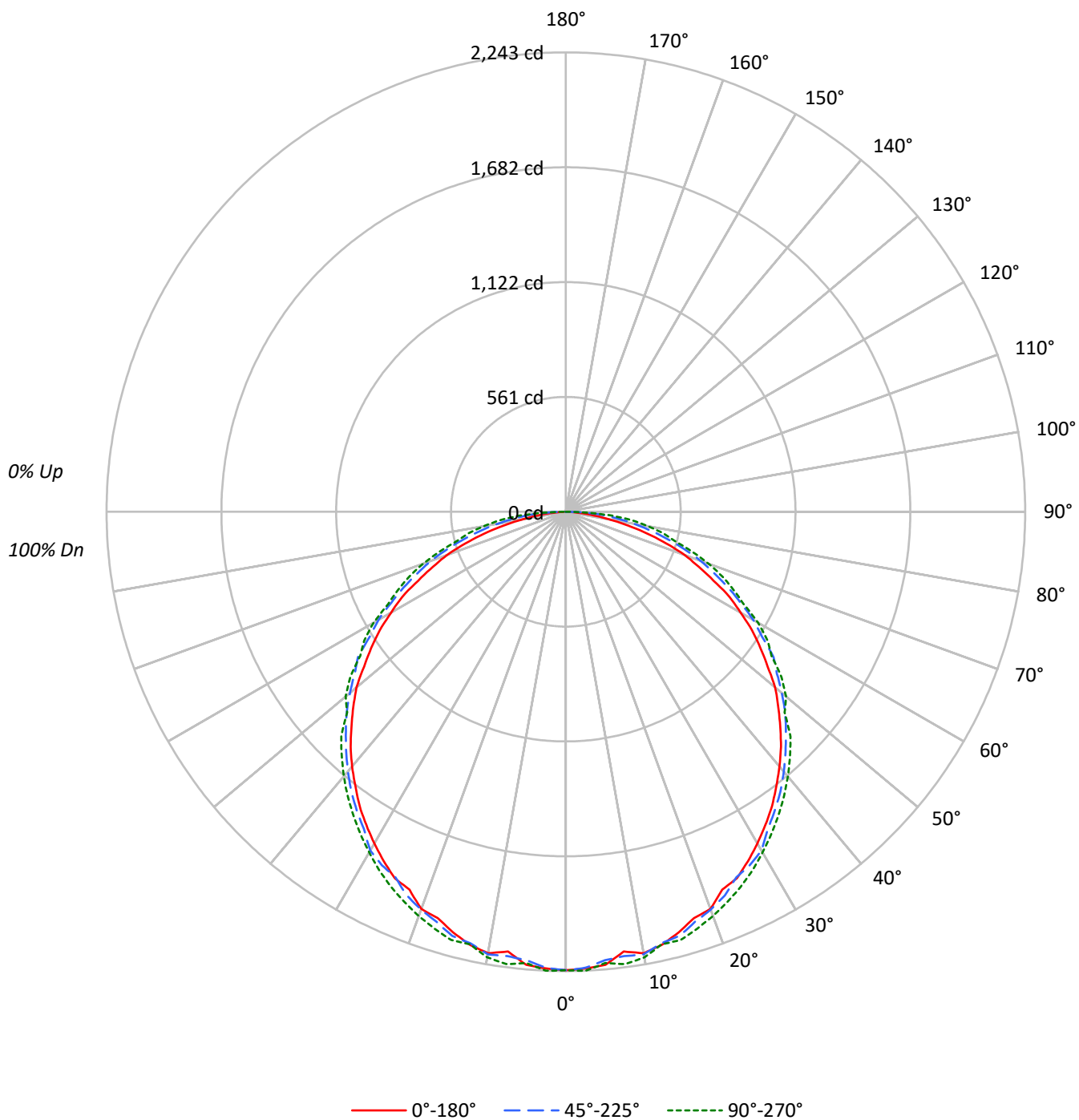
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6682.0 lumens
Efficiency: N/A
Efficacy: 125.4 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): 53.3
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	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	46	73	60	52	45	58	51	45		56	50	44		54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3428	3428	3428
5°	3414	3378	3401
10°	3403	3412	3436
15°	3372	3399	3432
20°	3364	3370	3423
25°	3337	3328	3414
30°	3307	3378	3397
35°	3282	3328	3383
40°	3246	3310	3372
45°	3205	3292	3359
50°	3179	3279	3344
55°	3099	3308	3274
60°	3020	3238	3321
65°	2884	3168	3277
70°	2766	3141	3324
75°	2449	3046	3257
80°	1933	2976	3602
85°	1183	3181	4109

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 4109 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.4	3.2
10°-20°	603.8	9.0
20°-30°	920.0	13.8
30°-40°	1119.8	16.8
40°-50°	1174.2	17.6
50°-60°	1087.7	16.3
60°-70°	857.8	12.8
70°-80°	530.6	7.9
80°-90°	176.7	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°	1735.2	26.0
0°-40°	2855.0	42.7
0°-60°	5116.9	76.6
0°-90°	6682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6682.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2238	2238	2238	2238	2238	
5°	2220	2219	2197	2246	2212	210
15°	2126	2137	2144	2128	2165	600
25°	1975	1986	1969	2024	2020	907
35°	1755	1772	1780	1814	1809	1097
45°	1480	1507	1520	1537	1551	1143
55°	1161	1195	1239	1250	1226	1038
65°	796	827	874	907	904	792
75°	414	447	515	554	550	437
85°	67	115	181	220	234	90
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2238.4	2238.4	2238.4	2238.4	2238.4
2.5°	2232.0	2245.6	2228.4	2242.9	2242.9
5°	2220.2	2219.3	2197.4	2245.6	2212.0
7.5°	2165.6	2203.8	2188.3	2247.5	2227.4
10°	2188.3	2178.3	2193.8	2233.8	2209.3
12.5°	2165.6	2182.0	2157.4	2137.4	2162.9
15°	2126.5	2137.4	2143.8	2128.3	2164.7
17.5°	2080.1	2121.0	2099.2	2091.9	2133.8
20°	2063.7	2065.5	2067.4	2104.7	2100.1
22.5°	1996.4	2032.8	2028.3	2058.3	2061.9
25°	1974.6	1985.5	1969.1	2023.7	2020.1
27.5°	1924.6	1948.2	1945.5	1963.7	1973.7
30°	1870.0	1893.6	1910.0	1890.0	1920.9
32.5°	1813.6	1853.6	1835.4	1872.7	1866.4
35°	1755.4	1771.8	1780.0	1813.6	1809.1
37.5°	1688.1	1716.3	1720.8	1771.8	1749.9
40°	1623.5	1651.7	1655.4	1685.4	1686.3
42.5°	1555.3	1568.9	1588.0	1622.6	1619.9
45°	1479.8	1507.1	1519.8	1537.1	1550.8
47.5°	1407.0	1436.2	1452.5	1480.7	1448.9
50°	1334.3	1355.2	1376.1	1406.1	1403.4
52.5°	1242.4	1289.7	1299.7	1316.1	1327.0
55°	1160.6	1195.1	1238.8	1249.7	1226.1
57.5°	1077.8	1104.2	1136.0	1169.7	1166.9
60°	985.9	1017.8	1056.9	1082.3	1084.2
62.5°	902.3	924.1	961.4	998.7	979.6
65°	795.8	826.8	874.1	906.8	904.1
67.5°	701.3	734.9	783.1	825.9	827.7
70°	617.6	635.8	701.3	734.0	742.2
72.5°	514.8	546.6	604.8	641.2	644.9
75°	413.8	446.6	514.8	553.9	550.3
77.5°	311.1	358.4	424.8	471.1	486.6
80°	219.2	261.9	337.4	382.9	408.4
82.5°	138.2	182.8	256.5	312.9	328.3
85°	67.3	114.6	181.0	220.1	233.8
87.5°	17.3	47.3	83.7	102.8	111.0
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	16.08	17.75	16.45	18.07	18.38	16.51	18.19	16.88	18.50	18.81
	3H	17.88	19.40	18.26	19.73	20.08	18.59	20.10	18.96	20.43	20.79
	4H	18.53	19.96	18.93	20.31	20.68	19.43	20.86	19.83	21.21	21.58
	6H	18.94	20.27	19.35	20.63	21.02	20.22	21.55	20.63	21.91	22.30
	8H	19.04	20.31	19.46	20.70	21.10	20.56	21.83	20.99	22.22	22.62
	12H	19.09	20.31	19.51	20.69	21.12	20.86	22.08	21.29	22.46	22.89
4H	2H	16.82	18.25	17.22	18.60	18.98	17.16	18.59	17.55	18.93	19.31
	3H	18.86	20.06	19.27	20.46	20.86	19.47	20.68	19.88	21.07	21.47
	4H	19.63	20.72	20.06	21.14	21.57	20.48	21.57	20.91	21.98	22.42
	6H	20.16	21.13	20.62	21.56	22.02	21.43	22.39	21.88	22.83	23.28
	8H	20.31	21.21	20.77	21.65	22.11	21.85	22.75	22.31	23.19	23.66
	12H	20.39	21.20	20.87	21.68	22.14	22.23	23.04	22.71	23.52	23.98
8H	4H	20.08	20.98	20.54	21.42	21.88	20.81	21.72	21.27	22.16	22.62
	6H	20.76	21.51	21.25	22.00	22.47	21.93	22.68	22.42	23.17	23.64
	8H	20.98	21.65	21.48	22.16	22.64	22.48	23.15	22.98	23.66	24.14
	12H	21.12	21.72	21.63	22.21	22.77	23.00	23.59	23.50	24.08	24.64
12H	4H	20.16	20.97	20.64	21.45	21.92	20.85	21.66	21.33	22.13	22.60
	6H	20.89	21.57	21.40	22.07	22.56	22.00	22.67	22.50	23.18	23.66
	8H	21.19	21.79	21.69	22.28	22.83	22.62	23.22	23.12	23.71	24.27