

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: P1588844

Luminaire Tested: 24CZSP-A-70VHE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588844
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-A-70VHE-L935-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 7500 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

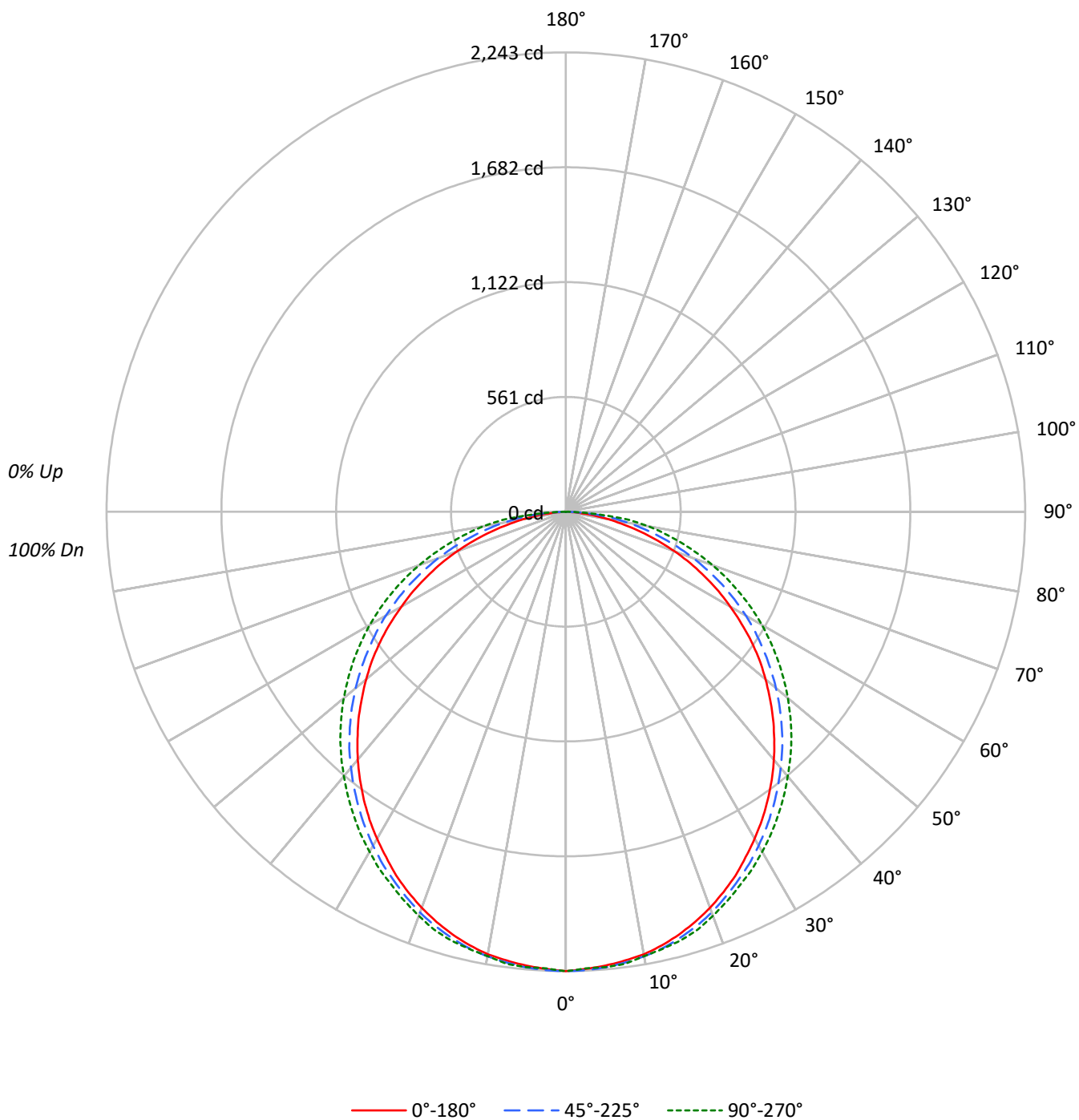
Lumens per Lamp: N/A
Luminaire Lumens: 6549.0 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3436	3436	3436
5°	3420	3433	3431
10°	3413	3428	3426
15°	3388	3416	3436
20°	3354	3394	3422
25°	3312	3359	3400
30°	3261	3329	3390
35°	3214	3297	3380
40°	3160	3264	3370
45°	3100	3231	3374
50°	3034	3191	3373
55°	2955	3147	3377
60°	2844	3112	3385
65°	2713	3052	3395
70°	2529	2967	3411
75°	2253	2849	3444
80°	1863	2712	3613
85°	1213	2450	3156

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3727 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.1	3.2
10°-20°	607.5	9.3
20°-30°	916.2	14.0
30°-40°	1103.5	16.8
40°-50°	1152.4	17.6
50°-60°	1058.4	16.2
60°-70°	833.6	12.7
70°-80°	511.4	7.8
80°-90°	153.9	2.4
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°	1735.8	26.5
0°-40°	2839.3	43.4
0°-60°	5050.1	77.1
0°-90°	6549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6549.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2243	2243	2243	2243	2243	
5°	2224	2227	2233	2240	2232	211
15°	2137	2141	2154	2167	2167	603
25°	1960	1964	1987	2012	2012	902
35°	1719	1727	1763	1799	1808	1075
45°	1431	1447	1492	1543	1558	1104
55°	1106	1127	1178	1244	1265	988
65°	749	775	842	912	937	741
75°	381	411	481	558	582	404
85°	69	95	139	177	180	90
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2243.2	2243.2	2243.2	2243.2	2243.2
2.5°	2234.6	2238.9	2240.3	2241.8	2231.7
5°	2224.5	2227.4	2233.1	2240.3	2231.7
7.5°	2210.2	2213.0	2220.2	2230.3	2226.0
10°	2194.3	2195.8	2204.4	2211.6	2203.0
12.5°	2168.5	2172.8	2182.9	2188.6	2185.7
15°	2136.9	2141.2	2154.1	2167.0	2167.0
17.5°	2099.5	2105.3	2121.1	2138.3	2139.7
20°	2057.8	2062.1	2082.3	2099.5	2099.5
22.5°	2010.4	2016.2	2036.3	2055.0	2057.8
25°	1960.1	1964.4	1987.4	2011.8	2011.8
27.5°	1901.2	1909.8	1938.6	1963.0	1968.7
30°	1843.7	1850.9	1882.5	1912.7	1917.0
32.5°	1783.4	1792.0	1825.0	1858.1	1865.3
35°	1718.7	1727.3	1763.2	1799.2	1807.8
37.5°	1651.2	1661.2	1698.6	1740.2	1748.9
40°	1580.7	1592.2	1632.5	1677.0	1685.6
42.5°	1506.0	1521.8	1564.9	1610.9	1623.8
45°	1431.3	1447.1	1491.6	1543.4	1557.7
47.5°	1352.2	1370.9	1416.9	1471.5	1487.3
50°	1273.2	1291.9	1339.3	1398.2	1415.5
52.5°	1192.7	1211.4	1260.3	1322.1	1340.8
55°	1106.5	1126.6	1178.4	1244.5	1264.6
57.5°	1017.4	1043.3	1097.9	1165.4	1185.6
60°	928.3	954.2	1016.0	1082.1	1105.1
62.5°	840.7	865.1	928.3	998.7	1023.2
65°	748.7	774.6	842.1	912.5	936.9
67.5°	658.2	684.0	751.6	824.9	850.7
70°	564.8	593.5	662.5	735.8	761.6
72.5°	471.3	501.5	571.9	646.7	671.1
75°	380.8	411.0	481.4	557.6	582.0
77.5°	291.7	324.8	393.7	471.3	494.3
80°	211.2	242.9	307.5	383.7	409.6
82.5°	135.1	162.4	227.1	298.9	317.6
85°	69.0	94.8	139.4	176.8	179.6
87.5°	21.6	30.2	46.0	69.0	70.4
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	15.77	17.43	16.13	17.74	18.06	16.60	18.26	16.96	18.57	18.89
	3H	17.52	19.03	17.90	19.36	19.71	18.71	20.22	19.09	20.55	20.91
	4H	18.14	19.56	18.54	19.91	20.28	19.60	21.02	20.00	21.37	21.75
	6H	18.55	19.87	18.96	20.24	20.63	20.38	21.70	20.79	22.07	22.46
	8H	18.66	19.92	19.08	20.31	20.71	20.70	21.97	21.13	22.35	22.75
	12H	18.71	19.92	19.14	20.30	20.73	20.91	22.12	21.34	22.51	22.93
4H	2H	16.54	17.96	16.94	18.31	18.68	17.18	18.61	17.58	18.95	19.33
	3H	18.52	19.71	18.92	20.11	20.51	19.54	20.74	19.95	21.13	21.53
	4H	19.25	20.34	19.68	20.75	21.19	20.59	21.68	21.02	22.09	22.52
	6H	19.78	20.73	20.23	21.17	21.63	21.54	22.50	22.00	22.94	23.39
	8H	19.93	20.82	20.39	21.26	21.72	21.94	22.83	22.40	23.27	23.74
	12H	20.01	20.81	20.49	21.29	21.76	22.22	23.02	22.70	23.50	23.96
8H	4H	19.71	20.60	20.17	21.04	21.51	20.88	21.77	21.34	22.21	22.68
	6H	20.37	21.12	20.86	21.60	22.08	21.99	22.74	22.48	23.22	23.70
	8H	20.58	21.25	21.09	21.76	22.24	22.50	23.17	23.01	23.68	24.16
	12H	20.72	21.31	21.23	21.80	22.36	22.89	23.48	23.39	23.97	24.53
12H	4H	19.80	20.60	20.28	21.08	21.55	20.90	21.71	21.38	22.18	22.65
	6H	20.50	21.17	21.01	21.68	22.16	22.04	22.71	22.55	23.21	23.70
	8H	20.78	21.37	21.29	21.86	22.42	22.62	23.21	23.12	23.70	24.26