

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: P1588502

Luminaire Tested: 24CZSP-70VHE-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588502
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-70VHE-L930-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 7500 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

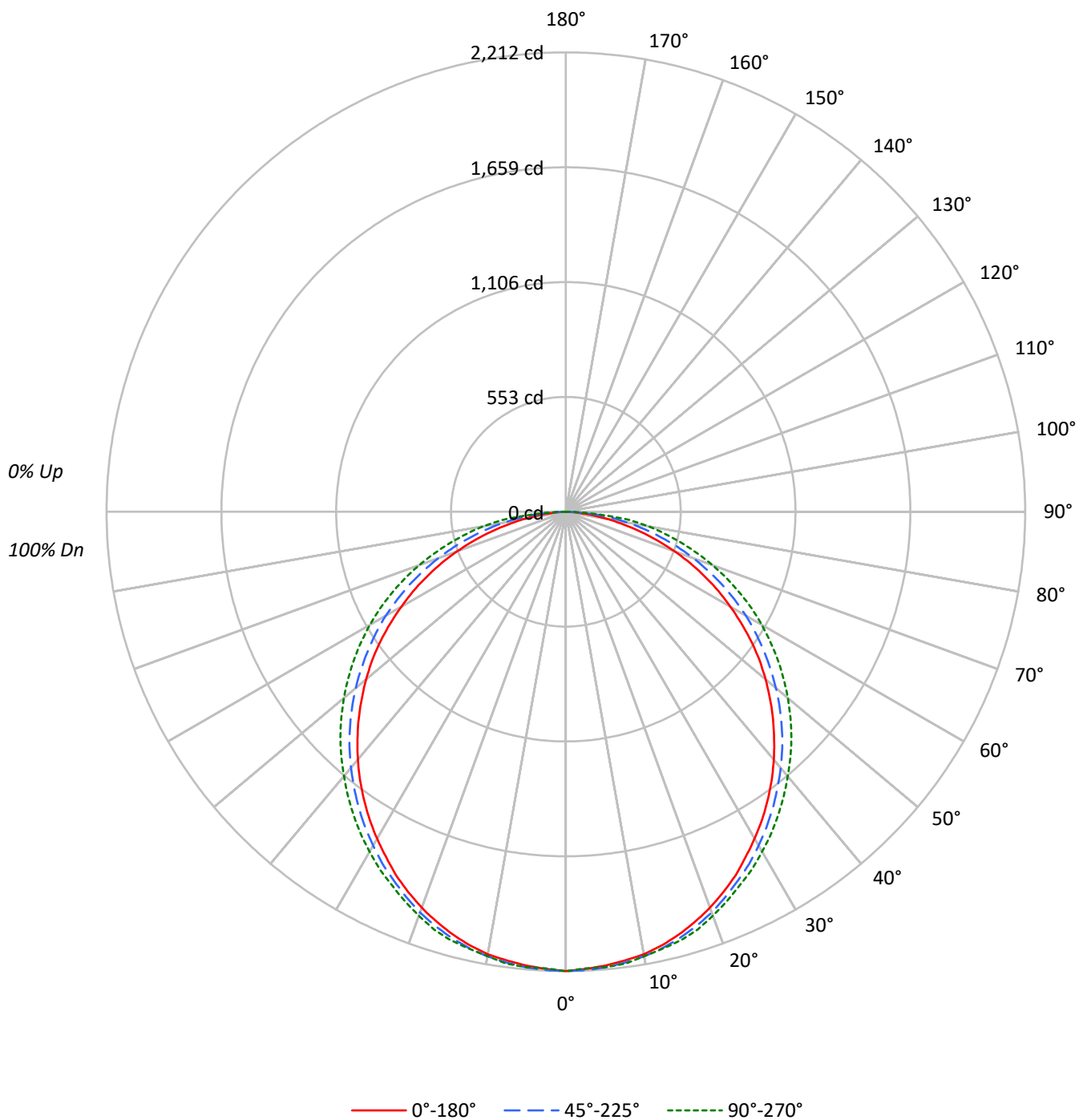
Lumens per Lamp: N/A
Luminaire Lumens: 6457.0 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3387	3387	3387
5°	3372	3385	3383
10°	3365	3380	3378
15°	3341	3368	3388
20°	3307	3346	3374
25°	3266	3311	3352
30°	3215	3283	3343
35°	3168	3251	3333
40°	3116	3218	3323
45°	3057	3186	3327
50°	2991	3146	3325
55°	2913	3102	3329
60°	2804	3068	3338
65°	2675	3009	3348
70°	2493	2925	3363
75°	2222	2809	3396
80°	1837	2674	3562
85°	1195	2415	3112

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3674 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.2	3.2
10°-20°	598.9	9.3
20°-30°	903.3	14.0
30°-40°	1088.0	16.8
40°-50°	1136.2	17.6
50°-60°	1043.5	16.2
60°-70°	821.9	12.7
70°-80°	504.2	7.8
80°-90°	151.7	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°	1711.4	26.5
0°-40°	2799.4	43.4
0°-60°	4979.2	77.1
0°-90°	6457.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6457.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2212	2212	2212	2212	2212	
5°	2193	2196	2202	2209	2200	208
15°	2107	2111	2124	2137	2137	594
25°	1933	1937	1960	1984	1984	890
35°	1694	1703	1738	1774	1782	1060
45°	1411	1427	1471	1522	1536	1088
55°	1091	1111	1162	1227	1247	974
65°	738	764	830	900	924	730
75°	376	405	475	550	574	398
85°	68	94	137	174	177	89
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2211.7	2211.7	2211.7	2211.7	2211.7
2.5°	2203.2	2207.4	2208.9	2210.3	2200.4
5°	2193.3	2196.1	2201.8	2208.9	2200.4
7.5°	2179.1	2181.9	2189.0	2198.9	2194.7
10°	2163.5	2164.9	2173.4	2180.5	2172.0
12.5°	2138.0	2142.3	2152.2	2157.9	2155.0
15°	2106.8	2111.1	2123.9	2136.6	2136.6
17.5°	2070.0	2075.7	2091.3	2108.3	2109.7
20°	2028.9	2033.2	2053.0	2070.0	2070.0
22.5°	1982.2	1987.8	2007.7	2026.1	2028.9
25°	1932.6	1936.8	1959.5	1983.6	1983.6
27.5°	1874.5	1883.0	1911.3	1935.4	1941.1
30°	1817.8	1824.9	1856.1	1885.8	1890.1
32.5°	1758.3	1766.8	1799.4	1832.0	1839.1
35°	1694.5	1703.0	1738.5	1773.9	1782.4
37.5°	1628.0	1637.9	1674.7	1715.8	1724.3
40°	1558.5	1569.9	1609.5	1653.5	1662.0
42.5°	1484.9	1500.4	1542.9	1588.3	1601.0
45°	1411.2	1426.8	1470.7	1521.7	1535.9
47.5°	1333.3	1351.7	1397.0	1450.8	1466.4
50°	1255.3	1273.7	1320.5	1378.6	1395.6
52.5°	1176.0	1194.4	1242.6	1303.5	1321.9
55°	1091.0	1110.8	1161.8	1227.0	1246.8
57.5°	1003.1	1028.6	1082.5	1149.1	1168.9
60°	915.3	940.8	1001.7	1066.9	1089.6
62.5°	828.9	852.9	915.3	984.7	1008.8
65°	738.2	763.7	830.3	899.7	923.8
67.5°	648.9	674.4	741.0	813.3	838.8
70°	556.8	585.2	653.2	725.4	750.9
72.5°	464.7	494.5	563.9	637.6	661.7
75°	375.5	405.2	474.6	549.7	573.8
77.5°	287.6	320.2	388.2	464.7	487.4
80°	208.3	239.4	303.2	378.3	403.8
82.5°	133.2	160.1	223.9	294.7	313.1
85°	68.0	93.5	137.4	174.3	177.1
87.5°	21.3	29.8	45.3	68.0	69.4
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	15.72	17.38	16.08	17.69	18.01	16.55	18.21	16.91	18.52	18.84
	3H	17.47	18.98	17.85	19.31	19.67	18.66	20.17	19.04	20.50	20.86
	4H	18.09	19.51	18.49	19.86	20.24	19.55	20.98	19.95	21.32	21.70
	6H	18.50	19.82	18.91	20.19	20.58	20.33	21.65	20.74	22.02	22.41
	8H	18.61	19.87	19.03	20.26	20.66	20.65	21.92	21.08	22.31	22.70
	12H	18.66	19.87	19.09	20.25	20.68	20.87	22.08	21.29	22.46	22.89
4H	2H	16.49	17.91	16.89	18.26	18.63	17.14	18.56	17.53	18.90	19.28
	3H	18.47	19.66	18.87	20.06	20.46	19.49	20.69	19.90	21.08	21.48
	4H	19.20	20.29	19.63	20.70	21.14	20.54	21.63	20.97	22.04	22.48
	6H	19.73	20.68	20.18	21.12	21.58	21.49	22.45	21.95	22.89	23.34
	8H	19.88	20.77	20.34	21.21	21.68	21.89	22.78	22.35	23.23	23.69
	12H	19.96	20.77	20.44	21.24	21.71	22.17	22.97	22.65	23.45	23.91
8H	4H	19.66	20.55	20.12	21.00	21.46	20.83	21.72	21.29	22.16	22.63
	6H	20.32	21.07	20.81	21.55	22.03	21.94	22.69	22.43	23.17	23.65
	8H	20.53	21.20	21.04	21.71	22.19	22.46	23.12	22.96	23.63	24.11
	12H	20.67	21.26	21.18	21.75	22.31	22.84	23.43	23.35	23.92	24.48
12H	4H	19.75	20.55	20.23	21.03	21.50	20.86	21.66	21.33	22.13	22.60
	6H	20.45	21.12	20.96	21.63	22.11	21.99	22.66	22.50	23.16	23.65
	8H	20.73	21.32	21.24	21.81	22.37	22.57	23.16	23.07	23.65	24.21