

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: P1588843

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588843
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-70VHE-L930
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 7500 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

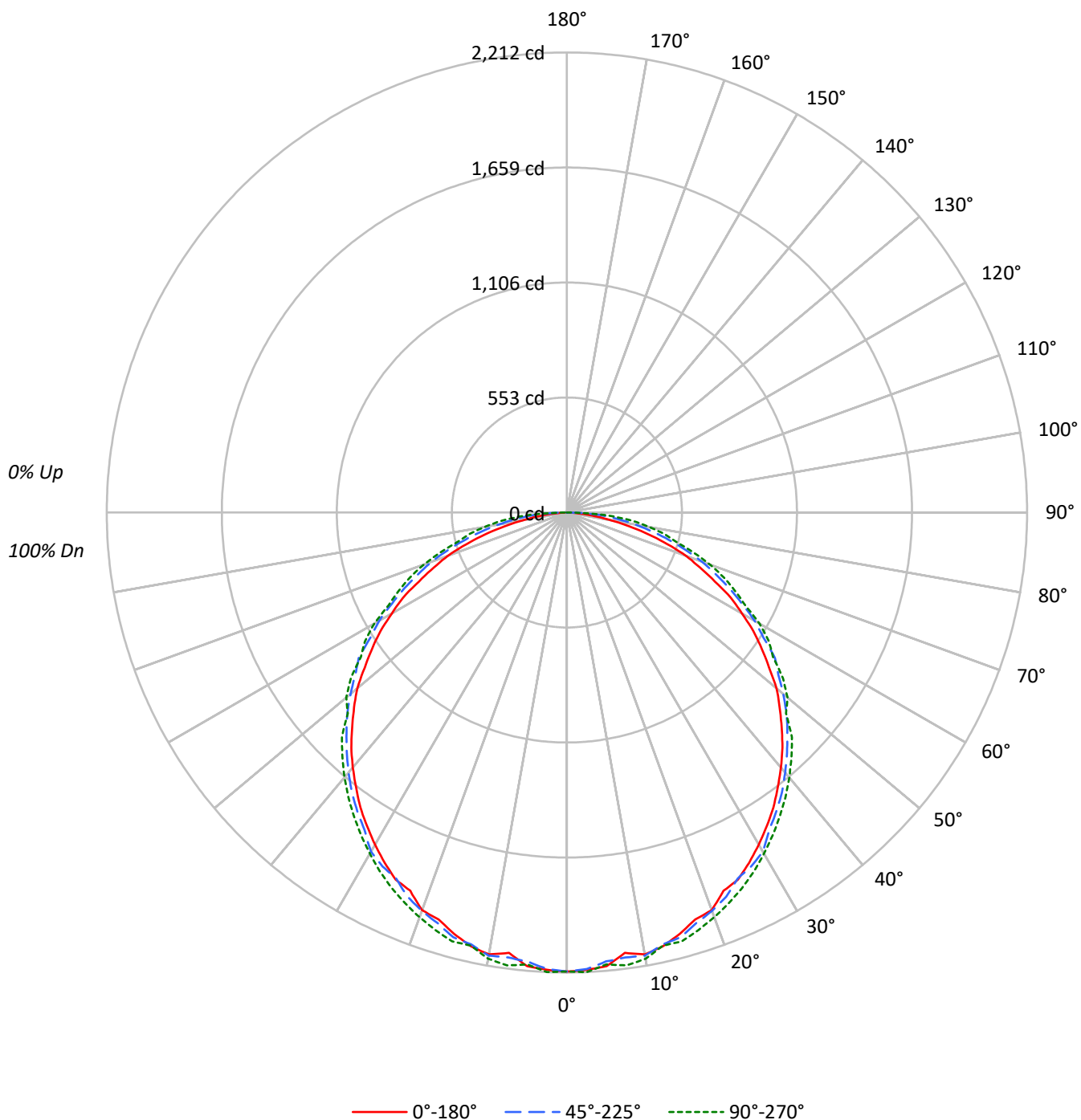
Lumens per Lamp: N/A
Luminaire Lumens: 6589.0 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3381	3381	3381
5°	3366	3331	3354
10°	3356	3364	3388
15°	3325	3352	3385
20°	3317	3323	3375
25°	3291	3281	3366
30°	3261	3331	3350
35°	3237	3282	3335
40°	3201	3264	3325
45°	3161	3246	3312
50°	3135	3233	3298
55°	3056	3262	3228
60°	2978	3193	3275
65°	2844	3124	3231
70°	2727	3097	3277
75°	2415	3004	3211
80°	1906	2935	3552
85°	1167	3137	4051

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 4051 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.5	3.2
10°-20°	595.4	9.0
20°-30°	907.2	13.8
30°-40°	1104.3	16.8
40°-50°	1157.8	17.6
50°-60°	1072.6	16.3
60°-70°	845.8	12.8
70°-80°	523.2	7.9
80°-90°	174.2	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°	1711.1	26.0
0°-40°	2815.3	42.7
0°-60°	5045.7	76.6
0°-90°	6589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6589.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2207	2207	2207	2207	2207	
5°	2189	2188	2167	2214	2181	207
15°	2097	2108	2114	2099	2135	592
25°	1947	1958	1942	1996	1992	895
35°	1731	1747	1755	1788	1784	1082
45°	1459	1486	1499	1516	1529	1127
55°	1144	1178	1222	1232	1209	1024
65°	785	815	862	894	892	781
75°	408	440	508	546	543	431
85°	66	113	178	217	230	89
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2207.2	2207.2	2207.2	2207.2	2207.2
2.5°	2200.9	2214.4	2197.3	2211.7	2211.7
5°	2189.3	2188.4	2166.8	2214.4	2181.2
7.5°	2135.5	2173.1	2157.9	2216.2	2196.4
10°	2157.9	2148.0	2163.3	2202.7	2178.5
12.5°	2135.5	2151.6	2127.4	2107.7	2132.8
15°	2096.9	2107.7	2113.9	2098.7	2134.6
17.5°	2051.2	2091.5	2070.0	2062.8	2104.1
20°	2035.0	2036.8	2038.6	2075.4	2070.9
22.5°	1968.6	2004.5	2000.0	2029.6	2033.2
25°	1947.1	1957.9	1941.7	1995.5	1992.0
27.5°	1897.8	1921.1	1918.4	1936.4	1946.2
30°	1844.0	1867.3	1883.4	1863.7	1894.2
32.5°	1788.4	1827.8	1809.9	1846.7	1840.4
35°	1731.0	1747.1	1755.2	1788.4	1783.9
37.5°	1664.6	1692.4	1696.9	1747.1	1725.6
40°	1600.9	1628.7	1632.3	1661.9	1662.8
42.5°	1533.7	1547.1	1565.9	1600.0	1597.3
45°	1459.2	1486.1	1498.7	1515.7	1529.2
47.5°	1387.5	1416.2	1432.3	1460.1	1428.7
50°	1315.7	1336.3	1357.0	1386.6	1383.9
52.5°	1225.1	1271.8	1281.6	1297.8	1308.5
55°	1144.4	1178.5	1221.5	1232.3	1209.0
57.5°	1062.8	1088.8	1120.2	1153.4	1150.7
60°	972.2	1003.6	1042.2	1067.3	1069.1
62.5°	889.7	911.2	948.0	984.8	965.9
65°	784.8	815.3	861.9	894.2	891.5
67.5°	691.5	724.7	772.2	814.4	816.2
70°	609.0	626.9	691.5	723.8	731.8
72.5°	507.6	539.0	596.4	632.3	635.9
75°	408.1	440.4	507.6	546.2	542.6
77.5°	306.7	353.4	418.8	464.6	479.8
80°	216.1	258.3	332.7	377.6	402.7
82.5°	136.3	180.3	252.9	308.5	323.8
85°	66.4	113.0	178.5	217.0	230.5
87.5°	17.0	46.6	82.5	101.3	109.4
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	16.03	17.71	16.40	18.02	18.33	16.47	18.14	16.83	18.45	18.76
	3H	17.83	19.35	18.21	19.68	20.04	18.54	20.05	18.91	20.38	20.74
	4H	18.48	19.91	18.88	20.26	20.63	19.38	20.81	19.78	21.16	21.53
	6H	18.89	20.22	19.30	20.58	20.97	20.17	21.50	20.58	21.86	22.25
	8H	18.99	20.26	19.41	20.65	21.05	20.51	21.79	20.94	22.17	22.57
	12H	19.04	20.26	19.47	20.64	21.07	20.81	22.03	21.24	22.41	22.84
4H	2H	16.77	18.20	17.17	18.55	18.93	17.11	18.54	17.50	18.89	19.26
	3H	18.81	20.02	19.22	20.41	20.81	19.42	20.63	19.83	21.02	21.42
	4H	19.58	20.68	20.01	21.09	21.52	20.43	21.52	20.86	21.93	22.37
	6H	20.12	21.08	20.57	21.52	21.97	21.38	22.34	21.83	22.78	23.23
	8H	20.26	21.16	20.72	21.60	22.07	21.80	22.70	22.26	23.14	23.61
	12H	20.34	21.15	20.82	21.63	22.09	22.18	22.99	22.66	23.47	23.94
8H	4H	20.03	20.93	20.49	21.37	21.84	20.77	21.67	21.22	22.11	22.57
	6H	20.71	21.46	21.20	21.95	22.42	21.88	22.63	22.37	23.12	23.59
	8H	20.93	21.60	21.43	22.11	22.59	22.43	23.10	22.93	23.61	24.09
	12H	21.07	21.67	21.58	22.16	22.72	22.95	23.55	23.45	24.04	24.59
12H	4H	20.11	20.93	20.59	21.40	21.87	20.80	21.61	21.28	22.09	22.55
	6H	20.84	21.52	21.35	22.02	22.51	21.95	22.63	22.45	23.13	23.61
	8H	21.14	21.74	21.64	22.23	22.78	22.57	23.17	23.08	23.66	24.22