

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: P1588453

Luminaire Tested: 24CZSP-65-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2604-747-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-65-L830
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 6000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

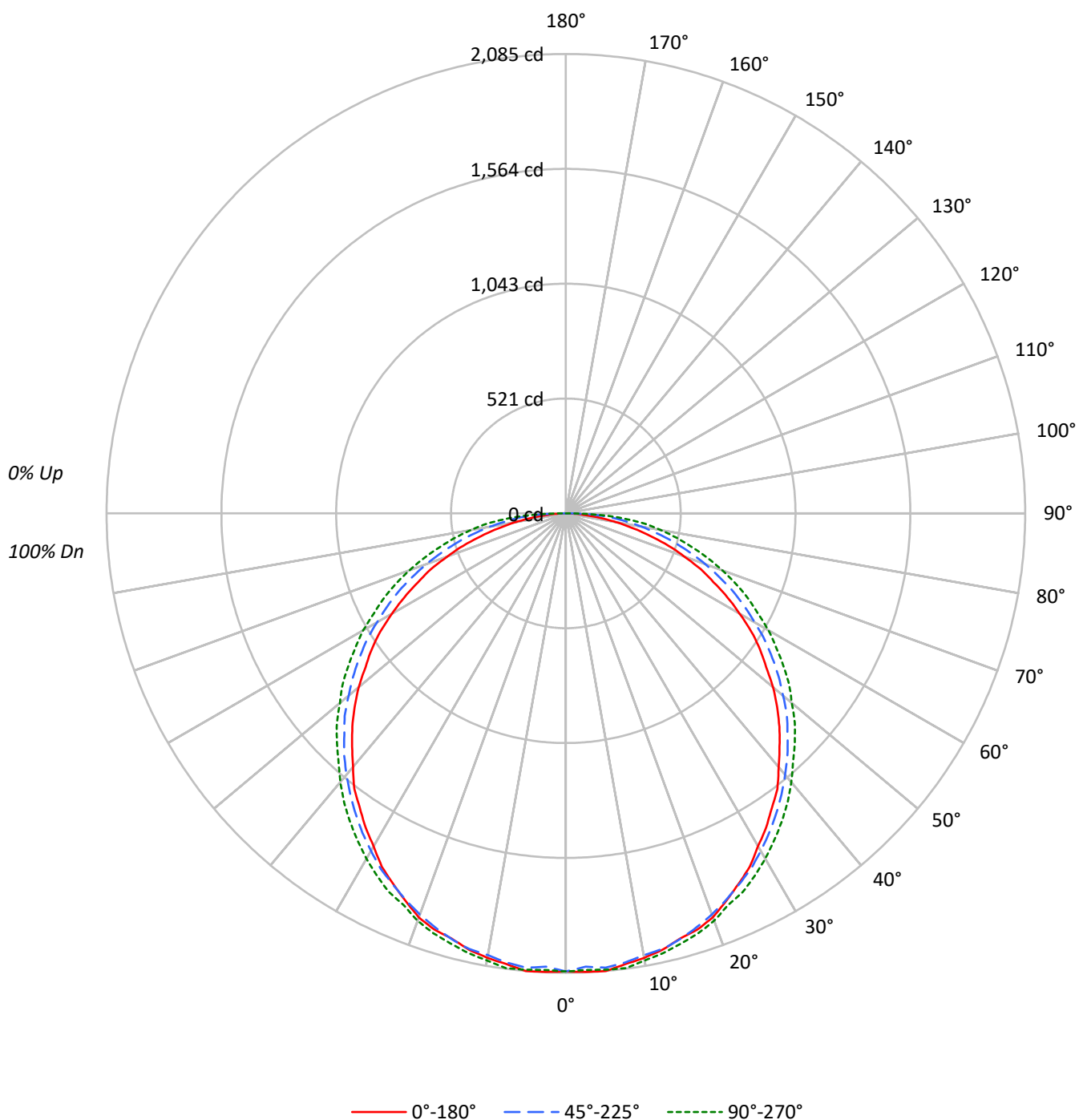
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6345.0 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 47.9
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	98	94	105	100	96	92	96	93	89		92	89	87		89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	51		62	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3184	3184	3184
5°	3205	3182	3196
10°	3186	3167	3205
15°	3168	3173	3205
20°	3180	3158	3207
25°	3136	3141	3207
30°	3085	3128	3201
35°	3049	3111	3194
40°	3005	3096	3184
45°	2969	3081	3183
50°	2926	3067	3190
55°	2873	3055	3218
60°	2793	3035	3254
65°	2682	3034	3304
70°	2559	3015	3382
75°	2356	3022	3507
80°	2064	3083	3860
85°	1576	3552	4620

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 5123 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.4	3.1
10°-20°	567.4	8.9
20°-30°	861.9	13.6
30°-40°	1044.0	16.5
40°-50°	1098.4	17.3
50°-60°	1021.3	16.1
60°-70°	822.3	13.0
70°-80°	532.7	8.4
80°-90°	199.8	3.1
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°	1626.6	25.6
0°-40°	2670.6	42.1
0°-60°	4790.3	75.5
0°-90°	6345.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6345.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2079	2079	2079	2079	2079	
5°	2085	2082	2070	2082	2079	197
15°	1998	2006	2001	2026	2021	566
25°	1855	1854	1858	1890	1898	855
35°	1630	1643	1664	1693	1708	1022
45°	1371	1389	1422	1453	1469	1057
55°	1076	1103	1144	1190	1205	960
65°	740	774	837	887	912	736
75°	398	438	511	570	593	423
85°	90	132	202	252	263	110
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2078.8	2078.8	2078.8	2078.8	2078.8
2.5°	2083.3	2083.3	2059.0	2084.8	2074.2
5°	2084.8	2081.8	2069.6	2081.8	2078.8
7.5°	2063.6	2066.6	2056.0	2071.2	2081.8
10°	2048.4	2051.4	2036.2	2060.5	2060.5
12.5°	2028.6	2031.7	2025.6	2048.4	2043.8
15°	1998.2	2005.8	2001.3	2025.6	2021.0
17.5°	1981.5	1975.4	1970.9	1989.1	1998.2
20°	1951.1	1937.4	1937.4	1961.8	1967.8
22.5°	1902.5	1897.9	1899.5	1929.8	1923.8
25°	1855.4	1853.9	1858.4	1890.3	1897.9
27.5°	1808.3	1805.2	1818.9	1849.3	1855.4
30°	1744.5	1750.5	1768.8	1802.2	1809.8
32.5°	1691.3	1701.9	1718.6	1750.5	1759.7
35°	1630.5	1642.7	1663.9	1692.8	1708.0
37.5°	1577.3	1584.9	1607.7	1635.1	1653.3
40°	1502.9	1522.6	1548.4	1587.9	1592.5
42.5°	1436.0	1455.7	1489.2	1531.7	1527.2
45°	1370.6	1388.9	1422.3	1452.7	1469.4
47.5°	1300.7	1317.5	1361.5	1398.0	1410.2
50°	1227.8	1249.1	1287.1	1325.1	1338.7
52.5°	1145.8	1168.5	1217.2	1258.2	1278.0
55°	1075.9	1103.2	1144.2	1189.8	1205.0
57.5°	998.4	1021.1	1071.3	1116.9	1132.1
60°	911.7	939.1	990.8	1039.4	1062.2
62.5°	828.2	858.6	913.3	963.4	981.6
65°	740.0	773.5	837.3	887.4	911.7
67.5°	664.1	691.4	753.7	809.9	835.8
70°	571.4	607.8	673.2	735.5	755.2
72.5°	489.3	521.2	589.6	651.9	676.2
75°	398.1	437.6	510.6	569.8	592.6
77.5°	314.6	355.6	428.5	490.8	516.7
80°	234.0	273.5	349.5	413.3	437.6
82.5°	158.0	197.5	273.5	335.8	363.2
85°	89.7	132.2	202.1	252.2	262.9
87.5°	39.5	76.0	114.0	136.8	145.9
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	15.71	17.39	16.07	17.70	18.02	16.38	18.06	16.75	18.38	18.69
	3H	17.56	19.09	17.94	19.42	19.78	18.60	20.13	18.98	20.45	20.81
	4H	18.25	19.69	18.65	20.04	20.41	19.56	21.01	19.96	21.36	21.73
	6H	18.74	20.08	19.15	20.45	20.84	20.46	21.80	20.87	22.16	22.55
	8H	18.89	20.17	19.31	20.56	20.96	20.86	22.14	21.28	22.53	22.93
	12H	18.98	20.21	19.41	20.59	21.02	21.22	22.45	21.65	22.83	23.26
4H	2H	16.50	17.95	16.90	18.29	18.67	17.02	18.47	17.42	18.81	19.19
	3H	18.59	19.81	19.00	20.21	20.61	19.48	20.70	19.89	21.10	21.50
	4H	19.41	20.52	19.84	20.93	21.36	20.61	21.72	21.04	22.13	22.57
	6H	20.03	21.01	20.49	21.45	21.90	21.68	22.66	22.13	23.09	23.55
	8H	20.23	21.15	20.69	21.59	22.05	22.17	23.09	22.63	23.53	23.99
	12H	20.37	21.19	20.84	21.67	22.13	22.62	23.45	23.10	23.92	24.39
8H	4H	19.92	20.83	20.37	21.27	21.74	20.95	21.87	21.41	22.31	22.77
	6H	20.70	21.47	21.19	21.95	22.43	22.20	22.97	22.69	23.45	23.93
	8H	20.99	21.68	21.49	22.18	22.66	22.83	23.52	23.33	24.02	24.50
	12H	21.20	21.82	21.71	22.30	22.86	23.44	24.05	23.94	24.54	25.09
12H	4H	20.02	20.85	20.50	21.32	21.79	20.99	21.82	21.47	22.29	22.76
	6H	20.87	21.56	21.37	22.06	22.55	22.28	22.97	22.78	23.47	23.96
	8H	21.24	21.85	21.74	22.34	22.90	22.98	23.59	23.49	24.08	24.64