

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: P1588593

Luminaire Tested: 24CZSP-A-42-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588593
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-A-42-L830
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

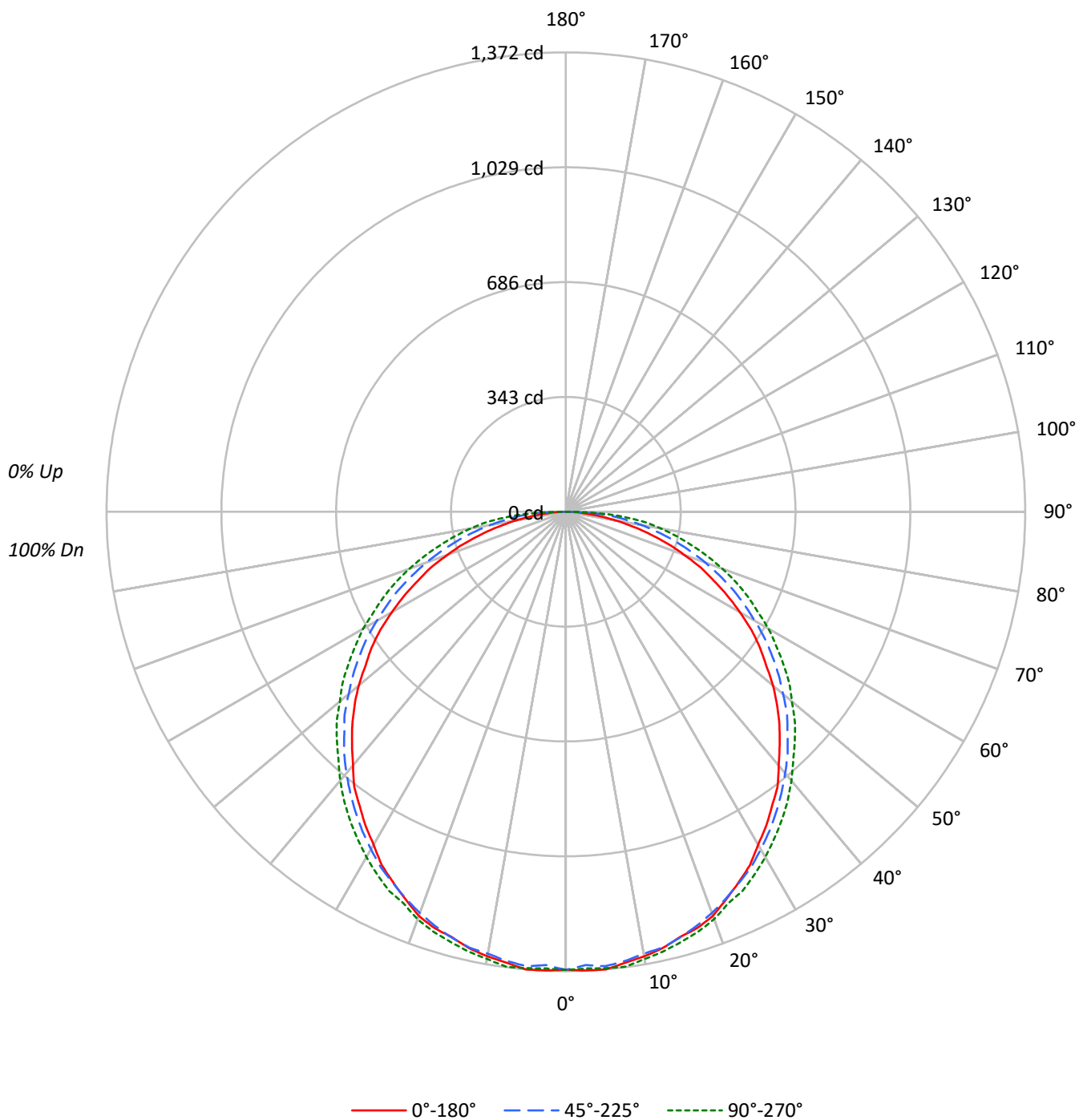
Lumens per Lamp: N/A
Luminaire Lumens: 4176.0 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.7
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°	2096	2096	2096
5°	2110	2094	2104
10°	2097	2084	2109
15°	2085	2088	2109
20°	2093	2078	2111
25°	2064	2067	2111
30°	2030	2059	2107
35°	2006	2048	2102
40°	1978	2038	2096
45°	1954	2028	2095
50°	1926	2018	2099
55°	1891	2011	2118
60°	1838	1998	2142
65°	1765	1997	2175
70°	1684	1984	2226
75°	1550	1988	2308
80°	1358	2029	2540
85°	1037	2337	3040

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 3371 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	3.1
10°-20°	373.4	8.9
20°-30°	567.2	13.6
30°-40°	687.1	16.5
40°-50°	722.9	17.3
50°-60°	672.2	16.1
60°-70°	541.2	13.0
70°-80°	350.5	8.4
80°-90°	131.5	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°	1070.5	25.6
0°-40°	1757.6	42.1
0°-60°	3152.7	75.5
0°-90°	4176.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4176.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1368	1368	1368	1368	1368	
5°	1372	1370	1362	1370	1368	130
15°	1315	1320	1317	1333	1330	373
25°	1221	1220	1223	1244	1249	563
35°	1073	1081	1095	1114	1124	672
45°	902	914	936	956	967	695
55°	708	726	753	783	793	632
65°	487	509	551	584	600	484
75°	262	288	336	375	390	278
85°	59	87	133	166	173	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1368.2	1368.2	1368.2	1368.2	1368.2
2.5°	1371.2	1371.2	1355.2	1372.2	1365.2
5°	1372.2	1370.2	1362.2	1370.2	1368.2
7.5°	1358.2	1360.2	1353.2	1363.2	1370.2
10°	1348.1	1350.2	1340.1	1356.2	1356.2
12.5°	1335.1	1337.1	1333.1	1348.1	1345.1
15°	1315.1	1320.1	1317.1	1333.1	1330.1
17.5°	1304.1	1300.1	1297.1	1309.1	1315.1
20°	1284.1	1275.1	1275.1	1291.1	1295.1
22.5°	1252.1	1249.1	1250.1	1270.1	1266.1
25°	1221.1	1220.1	1223.1	1244.1	1249.1
27.5°	1190.1	1188.1	1197.1	1217.1	1221.1
30°	1148.1	1152.1	1164.1	1186.1	1191.1
32.5°	1113.1	1120.1	1131.1	1152.1	1158.1
35°	1073.1	1081.1	1095.1	1114.1	1124.1
37.5°	1038.1	1043.1	1058.1	1076.1	1088.1
40°	989.1	1002.1	1019.1	1045.1	1048.1
42.5°	945.1	958.1	980.1	1008.1	1005.1
45°	902.1	914.1	936.1	956.1	967.1
47.5°	856.1	867.1	896.1	920.1	928.1
50°	808.1	822.1	847.1	872.1	881.1
52.5°	754.1	769.1	801.1	828.1	841.1
55°	708.1	726.1	753.1	783.1	793.1
57.5°	657.1	672.1	705.1	735.1	745.1
60°	600.1	618.1	652.1	684.1	699.1
62.5°	545.1	565.1	601.1	634.1	646.1
65°	487.1	509.1	551.1	584.1	600.1
67.5°	437.0	455.1	496.1	533.1	550.1
70°	376.0	400.0	443.0	484.1	497.1
72.5°	322.0	343.0	388.0	429.0	445.0
75°	262.0	288.0	336.0	375.0	390.0
77.5°	207.0	234.0	282.0	323.0	340.0
80°	154.0	180.0	230.0	272.0	288.0
82.5°	104.0	130.0	180.0	221.0	239.0
85°	59.0	87.0	133.0	166.0	173.0
87.5°	26.0	50.0	75.0	90.0	96.0
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	14.25	15.94	14.62	16.25	16.56	14.93	16.61	15.29	16.93	17.24
	3H	16.11	17.64	16.48	17.96	18.32	17.15	18.68	17.52	19.00	19.36
	4H	16.80	18.24	17.19	18.59	18.96	18.11	19.55	18.51	19.90	20.28
	6H	17.29	18.63	17.70	18.99	19.38	19.00	20.35	19.41	20.71	21.10
	8H	17.43	18.72	17.86	19.11	19.50	19.41	20.69	19.83	21.08	21.48
	12H	17.52	18.76	17.95	19.14	19.57	19.77	21.00	20.19	21.38	21.81
4H	2H	15.05	16.49	15.45	16.84	17.21	15.57	17.01	15.97	17.36	17.73
	3H	17.14	18.36	17.54	18.75	19.15	18.03	19.25	18.44	19.65	20.04
	4H	17.96	19.07	18.39	19.48	19.91	19.16	20.27	19.59	20.68	21.11
	6H	18.58	19.56	19.03	19.99	20.45	20.23	21.20	20.68	21.64	22.09
	8H	18.78	19.69	19.24	20.13	20.60	20.72	21.63	21.17	22.07	22.54
	12H	18.91	19.74	19.39	20.21	20.68	21.17	22.00	21.65	22.47	22.94
8H	4H	18.46	19.38	18.92	19.82	20.28	19.50	20.41	19.96	20.85	21.32
	6H	19.25	20.02	19.74	20.50	20.97	20.75	21.52	21.24	22.00	22.47
	8H	19.53	20.22	20.04	20.73	21.21	21.37	22.06	21.88	22.57	23.05
	12H	19.75	20.36	20.25	20.85	21.41	21.98	22.60	22.49	23.08	23.64
12H	4H	18.57	19.40	19.05	19.87	20.34	19.54	20.36	20.02	20.84	21.30
	6H	19.42	20.11	19.92	20.61	21.09	20.82	21.51	21.33	22.02	22.50
	8H	19.79	20.40	20.29	20.89	21.44	21.53	22.14	22.03	22.63	23.19