

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: P1588611

Luminaire Tested: 24CZSP-A-42-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588611
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-L950
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

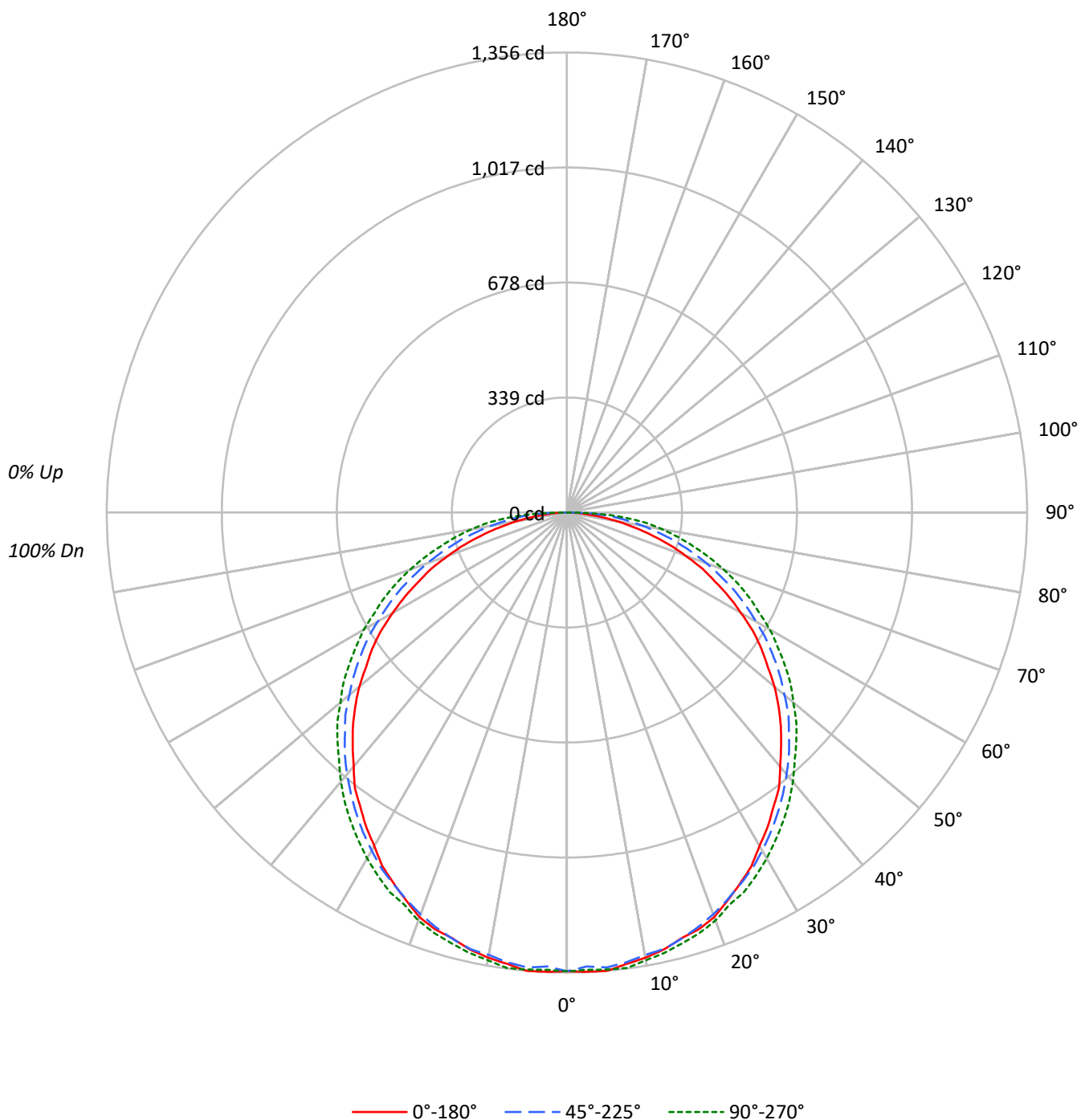
Lumens per Lamp: N/A
Luminaire Lumens: 4127.0 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	50	30	10
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°	2071	2071	2071
5°	2085	2070	2079
10°	2072	2060	2084
15°	2061	2064	2084
20°	2069	2054	2086
25°	2039	2043	2086
30°	2007	2035	2082
35°	1983	2024	2077
40°	1954	2014	2071
45°	1931	2004	2070
50°	1903	1995	2075
55°	1869	1987	2093
60°	1817	1974	2116
65°	1744	1974	2149
70°	1664	1961	2200
75°	1533	1965	2281
80°	1342	2005	2511
85°	1025	2311	3005

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 3332 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	3.1
10°-20°	369.0	8.9
20°-30°	560.6	13.6
30°-40°	679.1	16.5
40°-50°	714.4	17.3
50°-60°	664.3	16.1
60°-70°	534.8	13.0
70°-80°	346.5	8.4
80°-90°	129.9	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°	1058.0	25.6
0°-40°	1737.1	42.1
0°-60°	3115.8	75.5
0°-90°	4127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4127.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1352	1352	1352	1352	1352	
5°	1356	1354	1346	1354	1352	128
15°	1300	1305	1302	1318	1314	368
25°	1207	1206	1209	1230	1234	556
35°	1060	1068	1082	1101	1111	664
45°	892	903	925	945	956	687
55°	700	718	744	774	784	624
65°	481	503	545	577	593	479
75°	259	285	332	371	386	275
85°	58	86	132	164	171	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1352.1	1352.1	1352.1	1352.1	1352.1
2.5°	1355.1	1355.1	1339.2	1356.1	1349.1
5°	1356.1	1354.1	1346.2	1354.1	1352.1
7.5°	1342.2	1344.2	1337.3	1347.2	1354.1
10°	1332.3	1334.3	1324.4	1340.2	1340.2
12.5°	1319.5	1321.5	1317.5	1332.3	1329.4
15°	1299.7	1304.7	1301.7	1317.5	1314.5
17.5°	1288.8	1284.9	1281.9	1293.8	1299.7
20°	1269.1	1260.2	1260.2	1276.0	1279.9
22.5°	1237.4	1234.5	1235.5	1255.2	1251.3
25°	1206.8	1205.8	1208.8	1229.5	1234.5
27.5°	1176.2	1174.2	1183.1	1202.9	1206.8
30°	1134.7	1138.6	1150.5	1172.2	1177.2
32.5°	1100.1	1107.0	1117.9	1138.6	1144.5
35°	1060.5	1068.4	1082.3	1101.1	1110.9
37.5°	1025.9	1030.9	1045.7	1063.5	1075.4
40°	977.5	990.4	1007.2	1032.9	1035.8
42.5°	934.0	946.9	968.6	996.3	993.3
45°	891.5	903.4	925.1	944.9	955.8
47.5°	846.0	856.9	885.6	909.3	917.2
50°	798.6	812.4	837.2	861.9	870.8
52.5°	745.2	760.1	791.7	818.4	831.2
55°	699.8	717.6	744.2	773.9	783.8
57.5°	649.4	664.2	696.8	726.5	736.3
60°	593.0	610.8	644.4	676.0	690.9
62.5°	538.7	558.4	594.0	626.6	638.5
65°	481.3	503.1	544.6	577.2	593.0
67.5°	431.9	449.7	490.2	526.8	543.6
70°	371.6	395.4	437.9	478.4	491.2
72.5°	318.3	339.0	383.5	424.0	439.8
75°	259.0	284.7	332.1	370.6	385.5
77.5°	204.6	231.3	278.7	319.2	336.0
80°	152.2	177.9	227.3	268.8	284.7
82.5°	102.8	128.5	177.9	218.4	236.2
85°	58.3	86.0	131.5	164.1	171.0
87.5°	25.7	49.4	74.1	89.0	94.9
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	14.21	15.89	14.58	16.21	16.52	14.89	16.57	15.25	16.88	17.20
	3H	16.07	17.60	16.44	17.92	18.28	17.11	18.63	17.48	18.96	19.32
	4H	16.75	18.20	17.15	18.55	18.92	18.07	19.51	18.47	19.86	20.23
	6H	17.25	18.59	17.66	18.95	19.34	18.96	20.30	19.37	20.67	21.06
	8H	17.39	18.68	17.82	19.07	19.46	19.36	20.65	19.79	21.04	21.44
	12H	17.48	18.72	17.91	19.10	19.52	19.72	20.96	20.15	21.34	21.77
4H	2H	15.01	16.45	15.40	16.80	17.17	15.53	16.97	15.92	17.32	17.69
	3H	17.09	18.32	17.50	18.71	19.11	17.99	19.21	18.40	19.60	20.00
	4H	17.91	19.02	18.34	19.44	19.87	19.12	20.23	19.55	20.64	21.07
	6H	18.54	19.52	18.99	19.95	20.41	20.19	21.16	20.64	21.60	22.05
	8H	18.74	19.65	19.19	20.09	20.56	20.68	21.59	21.13	22.03	22.50
	12H	18.87	19.70	19.35	20.17	20.64	21.13	21.95	21.61	22.43	22.90
8H	4H	18.42	19.34	18.88	19.78	20.24	19.46	20.37	19.92	20.81	21.28
	6H	19.21	19.98	19.70	20.46	20.93	20.71	21.48	21.20	21.96	22.43
	8H	19.49	20.18	20.00	20.69	21.17	21.33	22.02	21.84	22.52	23.01
	12H	19.71	20.32	20.21	20.81	21.37	21.94	22.55	22.45	23.04	23.60
12H	4H	18.53	19.36	19.01	19.83	20.30	19.50	20.32	19.97	20.80	21.26
	6H	19.37	20.07	19.88	20.57	21.05	20.78	21.47	21.29	21.98	22.46
	8H	19.74	20.36	20.25	20.85	21.40	21.49	22.10	21.99	22.59	23.15

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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