

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: P1588291

Luminaire Tested: 24CZSP-43HE-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2603-711-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-43HE-L950
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

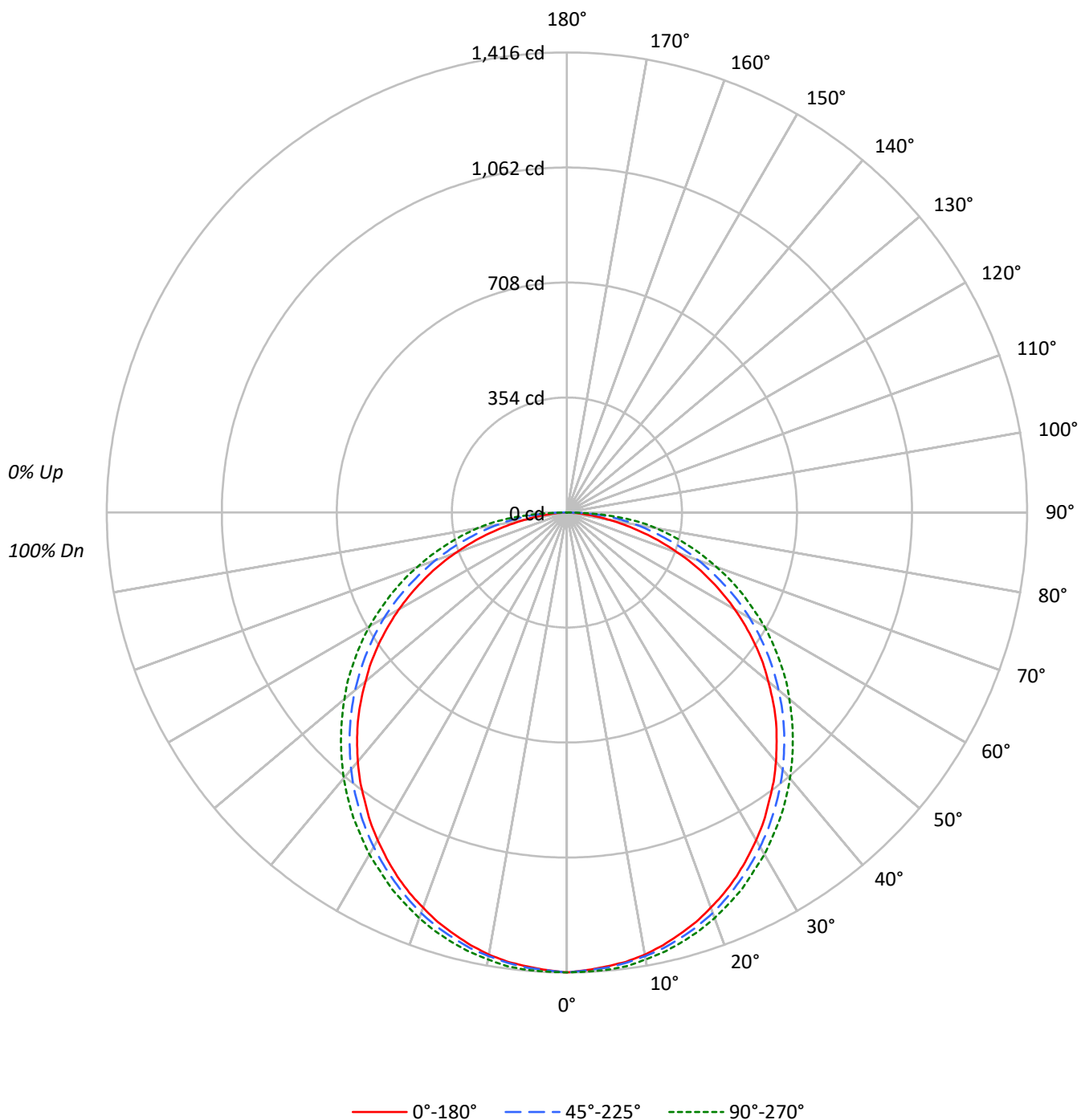
Lumens per Lamp: N/A
Luminaire Lumens: 4199.0 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 29.5
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

TEST NUMBER: P1588291

CATALOG NUMBER: 24CZSP-43HE-L950

Luminous Intensity Polar Plot



TEST NUMBER: P1588291

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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	101	97	93	96	93	90		92	90	87		89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73		81	76	72		77	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	29
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°	2168	2168	2168
5°	2157	2162	2173
10°	2149	2156	2173
15°	2130	2149	2171
20°	2110	2139	2165
25°	2088	2119	2158
30°	2059	2103	2150
35°	2027	2084	2143
40°	2001	2066	2135
45°	1971	2046	2130
50°	1927	2027	2129
55°	1887	2008	2135
60°	1830	1990	2150
65°	1752	1958	2165
70°	1639	1926	2191
75°	1458	1898	2262
80°	1200	1907	2460
85°	817	2125	2717

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 2717 cd/sqm

TEST NUMBER: P1588291

CATALOG NUMBER: 24CZSP-43HE-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.0	3.2
10°-20°	383.6	9.1
20°-30°	580.0	13.8
30°-40°	699.9	16.7
40°-50°	731.8	17.4
50°-60°	675.2	16.1
60°-70°	536.9	12.8
70°-80°	338.9	8.1
80°-90°	118.8	2.8
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°	1097.5	26.1
0°-40°	1797.4	42.8
0°-60°	3204.5	76.3
0°-90°	4199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4199.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1416	1416	1416	1416	1416	
5°	1403	1413	1406	1410	1413	133
15°	1343	1359	1355	1366	1369	379
25°	1235	1254	1254	1270	1277	569
35°	1084	1108	1114	1137	1146	679
45°	910	930	945	973	983	701
55°	707	728	752	788	800	631
65°	484	506	540	586	597	478
75°	246	274	321	368	382	261
85°	46	77	121	150	155	59
90°	0	0	0	0	0	

TEST NUMBER: P1588291

CATALOG NUMBER: 24CZSP-43HE-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1415.5	1415.5	1415.5	1415.5	1415.5
2.5°	1409.7	1419.0	1410.8	1415.5	1414.3
5°	1402.7	1413.2	1406.2	1409.7	1413.2
7.5°	1394.6	1406.2	1398.1	1403.9	1408.5
10°	1381.8	1393.4	1386.4	1393.4	1396.9
12.5°	1364.4	1378.3	1373.7	1381.8	1385.3
15°	1343.4	1358.6	1355.1	1365.5	1369.0
17.5°	1321.4	1337.6	1335.3	1346.9	1350.4
20°	1294.6	1313.2	1312.1	1323.7	1328.3
22.5°	1266.7	1285.3	1284.2	1297.0	1302.8
25°	1235.4	1254.0	1254.0	1270.2	1277.2
27.5°	1200.5	1221.4	1222.6	1238.9	1244.7
30°	1164.5	1185.4	1188.9	1206.3	1215.6
32.5°	1127.3	1147.0	1152.9	1172.6	1179.6
35°	1084.3	1107.5	1114.5	1136.6	1145.9
37.5°	1044.8	1065.7	1075.0	1098.2	1107.5
40°	1000.6	1022.7	1033.1	1058.7	1068.0
42.5°	955.3	977.4	989.0	1016.9	1026.2
45°	910.0	929.7	944.8	972.7	983.2
47.5°	860.0	882.1	898.3	928.6	939.0
50°	808.9	832.1	850.7	883.2	893.7
52.5°	760.0	781.0	801.9	837.9	849.5
55°	706.6	727.5	751.9	787.9	799.6
57.5°	652.0	672.9	700.8	739.1	751.9
60°	597.3	618.3	649.6	689.2	701.9
62.5°	540.4	561.3	596.2	636.9	648.5
65°	483.5	505.5	540.4	585.7	597.3
67.5°	425.3	447.4	484.6	532.3	545.0
70°	366.1	390.5	430.0	477.6	489.3
72.5°	304.5	332.4	376.5	423.0	437.0
75°	246.4	274.3	320.8	368.4	382.3
77.5°	189.4	220.8	267.3	317.3	332.4
80°	136.0	167.3	216.2	265.0	278.9
82.5°	87.2	119.7	168.5	215.0	226.6
85°	46.5	76.7	120.9	149.9	154.6
87.5°	15.1	39.5	54.6	72.1	73.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588291

CATALOG NUMBER: 24CZSP-43HE-L950

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	15.92	14.61	16.23	16.55	14.97	16.64	15.33	16.95	17.27
	3H	16.03	17.55	16.41	17.88	18.23	17.13	18.65	17.51	18.98	19.34
	4H	16.66	18.10	17.06	18.44	18.82	18.07	19.50	18.46	19.85	20.22
	6H	17.09	18.42	17.50	18.78	19.17	18.93	20.26	19.34	20.62	21.01
	8H	17.20	18.47	17.62	18.86	19.26	19.30	20.58	19.73	20.96	21.36
	12H	17.26	18.48	17.69	18.86	19.29	19.61	20.84	20.04	21.22	21.64
4H	2H	15.01	16.44	15.41	16.79	17.16	15.57	17.00	15.97	17.35	17.72
	3H	17.03	18.24	17.44	18.64	19.04	17.98	19.19	18.39	19.59	19.99
	4H	17.79	18.89	18.23	19.31	19.74	19.09	20.18	19.52	20.60	21.03
	6H	18.35	19.31	18.80	19.75	20.21	20.13	21.09	20.58	21.53	21.98
	8H	18.51	19.41	18.97	19.85	20.32	20.59	21.49	21.05	21.94	22.40
	12H	18.61	19.42	19.08	19.89	20.36	20.99	21.80	21.47	22.28	22.74
8H	4H	18.28	19.19	18.74	19.63	20.09	19.40	20.31	19.86	20.75	21.21
	6H	18.99	19.75	19.48	20.23	20.71	20.62	21.38	21.11	21.86	22.34
	8H	19.23	19.91	19.74	20.42	20.90	21.22	21.90	21.72	22.40	22.89
	12H	19.40	20.01	19.91	20.50	21.05	21.76	22.36	22.26	22.85	23.41
12H	4H	18.39	19.20	18.87	19.68	20.14	19.43	20.25	19.91	20.72	21.19
	6H	19.15	19.83	19.66	20.34	20.82	20.68	21.37	21.19	21.87	22.35
	8H	19.48	20.08	19.98	20.57	21.13	21.36	21.96	21.86	22.45	23.01