

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: P1588285

Luminaire Tested: 24CZSP-43HE-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588285
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-L935
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

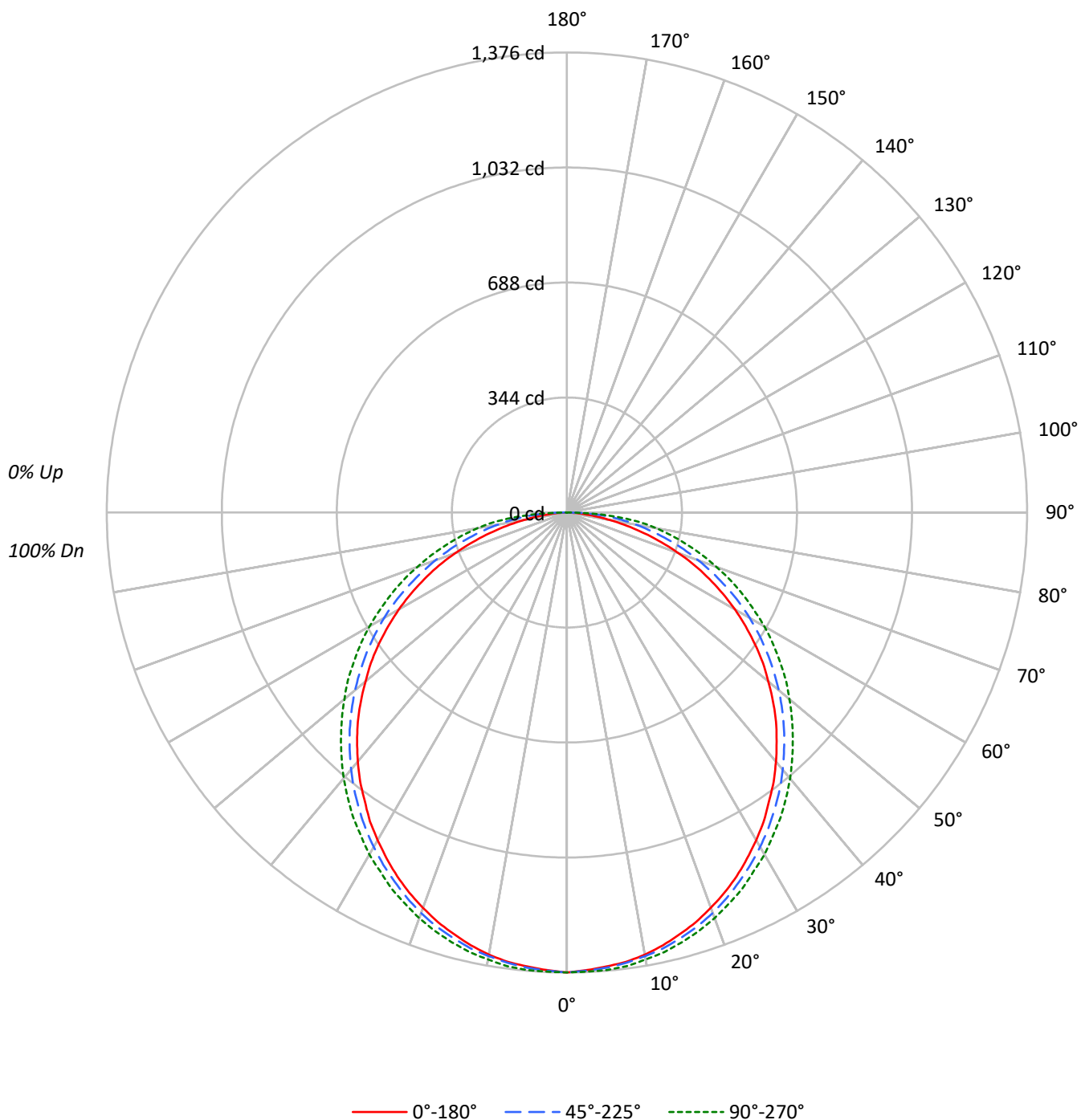
Lumens per Lamp: N/A
Luminaire Lumens: 4081.0 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

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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
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	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°	2107	2107	2107
5°	2096	2101	2112
10°	2089	2096	2111
15°	2070	2088	2110
20°	2051	2078	2104
25°	2029	2060	2098
30°	2001	2044	2089
35°	1970	2025	2082
40°	1944	2008	2075
45°	1916	1989	2070
50°	1873	1970	2070
55°	1834	1951	2075
60°	1779	1934	2090
65°	1703	1903	2104
70°	1593	1871	2129
75°	1417	1845	2199
80°	1166	1853	2391
85°	794	2065	2640

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 2640 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	3.2
10°-20°	372.8	9.1
20°-30°	563.7	13.8
30°-40°	680.2	16.7
40°-50°	711.3	17.4
50°-60°	656.2	16.1
60°-70°	521.8	12.8
70°-80°	329.3	8.1
80°-90°	115.5	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°	1066.7	26.1
0°-40°	1746.9	42.8
0°-60°	3114.4	76.3
0°-90°	4081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4081.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1376	1376	1376	1376	1376	
5°	1363	1374	1367	1370	1374	130
15°	1306	1320	1317	1327	1330	368
25°	1201	1219	1219	1234	1241	553
35°	1054	1076	1083	1105	1114	660
45°	884	904	918	945	956	681
55°	687	707	731	766	777	613
65°	470	491	525	569	581	464
75°	240	267	312	358	372	254
85°	45	74	118	146	150	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1375.7	1375.7	1375.7	1375.7	1375.7
2.5°	1370.1	1379.1	1371.2	1375.7	1374.6
5°	1363.3	1373.5	1366.7	1370.1	1373.5
7.5°	1355.4	1366.7	1358.8	1364.4	1368.9
10°	1343.0	1354.3	1347.5	1354.3	1357.6
12.5°	1326.0	1339.6	1335.1	1343.0	1346.4
15°	1305.7	1320.4	1317.0	1327.2	1330.5
17.5°	1284.2	1300.0	1297.8	1309.1	1312.5
20°	1258.3	1276.3	1275.2	1286.5	1291.0
22.5°	1231.1	1249.2	1248.1	1260.5	1266.2
25°	1200.6	1218.7	1218.7	1234.5	1241.3
27.5°	1166.8	1187.1	1188.2	1204.0	1209.7
30°	1131.7	1152.1	1155.5	1172.4	1181.4
32.5°	1095.6	1114.8	1120.5	1139.7	1146.4
35°	1053.8	1076.4	1083.2	1104.6	1113.7
37.5°	1015.4	1035.7	1044.8	1067.4	1076.4
40°	972.5	994.0	1004.1	1029.0	1038.0
42.5°	928.4	949.9	961.2	988.3	997.3
45°	884.4	903.6	918.3	945.4	955.5
47.5°	835.8	857.3	873.1	902.5	912.6
50°	786.1	808.7	826.8	858.4	868.6
52.5°	738.7	759.0	779.3	814.4	825.7
55°	686.7	707.1	730.8	765.8	777.1
57.5°	633.6	654.0	681.1	718.4	730.8
60°	580.6	600.9	631.4	669.8	682.2
62.5°	525.2	545.5	579.4	619.0	630.3
65°	469.9	491.3	525.2	569.3	580.6
67.5°	413.4	434.9	471.0	517.3	529.7
70°	355.8	379.5	417.9	464.2	475.5
72.5°	295.9	323.0	366.0	411.1	424.7
75°	239.5	266.6	311.7	358.0	371.6
77.5°	184.1	214.6	259.8	308.4	323.0
80°	132.2	162.6	210.1	257.5	271.1
82.5°	84.7	116.3	163.8	209.0	220.3
85°	45.2	74.5	117.5	145.7	150.2
87.5°	14.7	38.4	53.1	70.0	71.2
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	14.15	15.82	14.51	16.13	16.45	14.87	16.54	15.23	16.85	17.17
	3H	15.93	17.45	16.31	17.78	18.14	17.03	18.55	17.41	18.88	19.24
	4H	16.56	18.00	16.96	18.34	18.72	17.97	19.40	18.37	19.75	20.12
	6H	16.99	18.32	17.40	18.68	19.07	18.83	20.16	19.24	20.52	20.91
	8H	17.10	18.37	17.52	18.76	19.16	19.20	20.48	19.63	20.87	21.26
	12H	17.16	18.38	17.59	18.76	19.19	19.52	20.74	19.94	21.12	21.55
4H	2H	14.91	16.34	15.31	16.69	17.06	15.47	16.90	15.87	17.25	17.63
	3H	16.93	18.14	17.34	18.54	18.94	17.88	19.09	18.29	19.49	19.89
	4H	17.70	18.79	18.13	19.21	19.64	18.99	20.08	19.42	20.50	20.93
	6H	18.25	19.21	18.70	19.65	20.11	20.03	20.99	20.48	21.43	21.88
	8H	18.41	19.31	18.87	19.75	20.22	20.49	21.40	20.95	21.84	22.30
	12H	18.51	19.32	18.98	19.80	20.26	20.89	21.70	21.37	22.18	22.65
8H	4H	18.18	19.09	18.64	19.53	19.99	19.30	20.21	19.76	20.65	21.11
	6H	18.89	19.65	19.38	20.13	20.61	20.52	21.28	21.01	21.76	22.24
	8H	19.13	19.81	19.64	20.32	20.80	21.12	21.80	21.63	22.30	22.79
	12H	19.31	19.91	19.81	20.40	20.96	21.66	22.26	22.17	22.75	23.31
12H	4H	18.29	19.10	18.77	19.58	20.04	19.33	20.15	19.81	20.62	21.09
	6H	19.05	19.73	19.56	20.24	20.72	20.58	21.27	21.09	21.77	22.25
	8H	19.38	19.98	19.88	20.47	21.03	21.26	21.86	21.77	22.35	22.91