

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: P1588283

Luminaire Tested: 24CZSP-43HE-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588283
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-L930
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

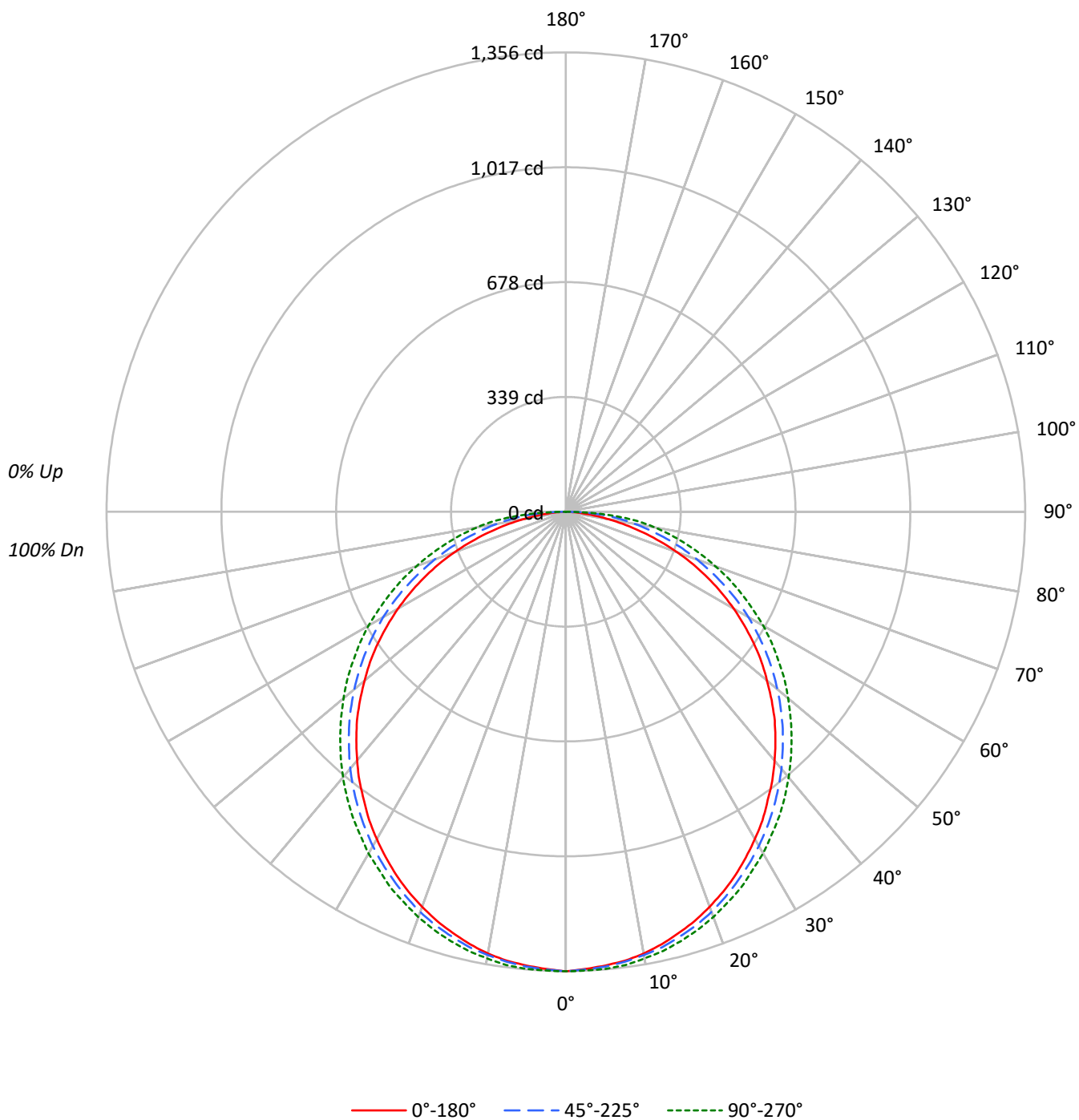
Lumens per Lamp: N/A
Luminaire Lumens: 4024.0 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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°	2078	2078	2078
5°	2067	2072	2082
10°	2059	2066	2082
15°	2042	2059	2080
20°	2022	2049	2075
25°	2001	2031	2069
30°	1974	2015	2060
35°	1943	1997	2053
40°	1917	1980	2046
45°	1889	1961	2041
50°	1847	1942	2041
55°	1808	1924	2046
60°	1753	1907	2061
65°	1679	1877	2074
70°	1571	1845	2100
75°	1397	1819	2168
80°	1149	1828	2358
85°	782	2035	2603

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 2603 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	3.2
10°-20°	367.6	9.1
20°-30°	555.8	13.8
30°-40°	670.7	16.7
40°-50°	701.3	17.4
50°-60°	647.1	16.1
60°-70°	514.5	12.8
70°-80°	324.7	8.1
80°-90°	113.9	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°	1051.8	26.1
0°-40°	1722.5	42.8
0°-60°	3070.9	76.3
0°-90°	4024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4024.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1356	1356	1356	1356	1356	
5°	1344	1354	1348	1351	1354	128
15°	1288	1302	1299	1309	1312	363
25°	1184	1202	1202	1217	1224	545
35°	1039	1061	1068	1089	1098	651
45°	872	891	905	932	942	672
55°	677	697	721	755	766	605
65°	463	484	518	561	572	458
75°	236	263	307	353	366	250
85°	44	74	116	144	148	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1356.5	1356.5	1356.5	1356.5	1356.5
2.5°	1350.9	1359.8	1352.0	1356.5	1355.4
5°	1344.3	1354.3	1347.6	1350.9	1354.3
7.5°	1336.5	1347.6	1339.8	1345.4	1349.8
10°	1324.2	1335.3	1328.7	1335.3	1338.7
12.5°	1307.5	1320.9	1316.4	1324.2	1327.5
15°	1287.5	1301.9	1298.6	1308.6	1312.0
17.5°	1266.3	1281.9	1279.7	1290.8	1294.1
20°	1240.7	1258.5	1257.4	1268.5	1273.0
22.5°	1213.9	1231.8	1230.7	1242.9	1248.5
25°	1183.9	1201.7	1201.7	1217.3	1224.0
27.5°	1150.5	1170.5	1171.6	1187.2	1192.8
30°	1115.9	1136.0	1139.3	1156.0	1164.9
32.5°	1080.3	1099.2	1104.8	1123.7	1130.4
35°	1039.1	1061.4	1068.1	1089.2	1098.1
37.5°	1001.2	1021.3	1030.2	1052.5	1061.4
40°	958.9	980.1	990.1	1014.6	1023.5
42.5°	915.5	936.6	947.8	974.5	983.4
45°	872.0	891.0	905.4	932.2	942.2
47.5°	824.1	845.3	860.9	889.9	899.9
50°	775.1	797.4	815.2	846.4	856.4
52.5°	728.4	748.4	768.5	803.0	814.1
55°	677.1	697.2	720.6	755.1	766.2
57.5°	624.8	644.8	671.6	708.3	720.6
60°	572.4	592.5	622.6	660.4	672.7
62.5°	517.9	537.9	571.3	610.3	621.5
65°	463.3	484.5	517.9	561.3	572.4
67.5°	407.6	428.8	464.4	510.1	522.3
70°	350.8	374.2	412.1	457.7	468.9
72.5°	291.8	318.5	360.8	405.4	418.8
75°	236.1	262.8	307.4	353.0	366.4
77.5°	181.5	211.6	256.2	304.0	318.5
80°	130.3	160.4	207.2	253.9	267.3
82.5°	83.5	114.7	161.5	206.0	217.2
85°	44.5	73.5	115.8	143.7	148.1
87.5°	14.5	37.9	52.3	69.1	70.2
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	14.10	15.77	14.46	16.08	16.40	14.82	16.49	15.18	16.80	17.12
	3H	15.88	17.40	16.26	17.73	18.09	16.99	18.50	17.36	18.83	19.19
	4H	16.51	17.95	16.91	18.29	18.67	17.92	19.35	18.32	19.70	20.07
	6H	16.94	18.27	17.35	18.63	19.02	18.78	20.11	19.19	20.47	20.86
	8H	17.05	18.32	17.47	18.71	19.11	19.16	20.43	19.58	20.82	21.21
	12H	17.11	18.33	17.54	18.71	19.14	19.47	20.69	19.89	21.07	21.50
4H	2H	14.86	16.29	15.26	16.64	17.02	15.42	16.85	15.82	17.20	17.58
	3H	16.88	18.09	17.29	18.49	18.89	17.83	19.04	18.24	19.44	19.84
	4H	17.65	18.74	18.08	19.16	19.59	18.94	20.04	19.37	20.45	20.88
	6H	18.20	19.16	18.65	19.60	20.06	19.98	20.94	20.43	21.38	21.83
	8H	18.36	19.26	18.82	19.70	20.17	20.44	21.35	20.90	21.79	22.25
	12H	18.46	19.27	18.94	19.75	20.21	20.84	21.65	21.32	22.13	22.60
8H	4H	18.13	19.04	18.59	19.48	19.94	19.25	20.16	19.71	20.60	21.06
	6H	18.84	19.60	19.33	20.09	20.56	20.47	21.23	20.96	21.71	22.19
	8H	19.09	19.76	19.59	20.27	20.75	21.07	21.75	21.58	22.25	22.74
	12H	19.26	19.86	19.76	20.35	20.91	21.61	22.21	22.12	22.70	23.26
12H	4H	18.24	19.05	18.72	19.53	20.00	19.29	20.10	19.76	20.57	21.04
	6H	19.00	19.69	19.51	20.19	20.67	20.54	21.22	21.04	21.72	22.21
	8H	19.33	19.93	19.83	20.42	20.98	21.21	21.81	21.72	22.30	22.86