

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: P1588583

Luminaire Tested: 24CZSP-A-37HE-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588583
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-A-37HE-L930
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

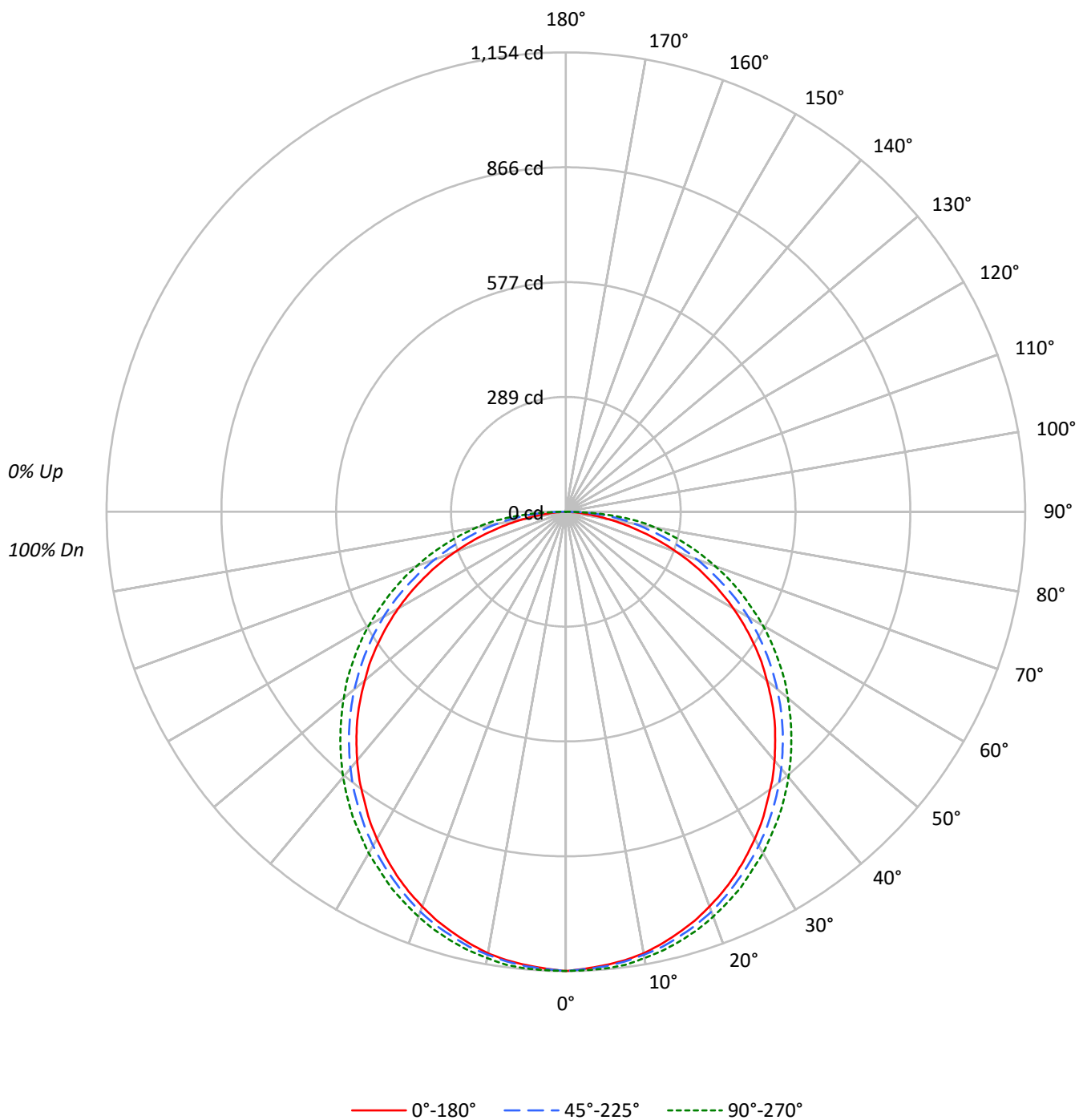
Lumens per Lamp: N/A
Luminaire Lumens: 3422.0 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
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	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°	1767	1767	1767
5°	1757	1762	1771
10°	1751	1757	1771
15°	1736	1751	1769
20°	1720	1743	1764
25°	1701	1727	1759
30°	1678	1714	1752
35°	1652	1698	1746
40°	1631	1683	1740
45°	1606	1668	1735
50°	1571	1652	1735
55°	1538	1636	1740
60°	1491	1622	1752
65°	1428	1596	1764
70°	1336	1569	1785
75°	1188	1547	1844
80°	977	1554	2005
85°	666	1731	2214

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 2214 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.2	3.2
10°-20°	312.6	9.1
20°-30°	472.7	13.8
30°-40°	570.4	16.7
40°-50°	596.4	17.4
50°-60°	550.3	16.1
60°-70°	437.5	12.8
70°-80°	276.1	8.1
80°-90°	96.8	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°	894.4	26.1
0°-40°	1464.8	42.8
0°-60°	2611.5	76.3
0°-90°	3422.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3422.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1154	1154	1154	1154	1154	
5°	1143	1152	1146	1149	1152	109
15°	1095	1107	1104	1113	1116	309
25°	1007	1022	1022	1035	1041	464
35°	884	903	908	926	934	554
45°	742	758	770	793	801	571
55°	576	593	613	642	652	514
65°	394	412	440	477	487	389
75°	201	224	261	300	312	213
85°	38	62	98	122	126	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1153.6	1153.6	1153.6	1153.6	1153.6
2.5°	1148.8	1156.4	1149.8	1153.6	1152.6
5°	1143.1	1151.7	1146.0	1148.8	1151.7
7.5°	1136.5	1146.0	1139.4	1144.1	1147.9
10°	1126.1	1135.6	1129.9	1135.6	1138.4
12.5°	1111.9	1123.3	1119.5	1126.1	1128.9
15°	1094.8	1107.2	1104.3	1112.8	1115.7
17.5°	1076.9	1090.1	1088.2	1097.7	1100.5
20°	1055.1	1070.2	1069.3	1078.7	1082.5
22.5°	1032.3	1047.5	1046.5	1057.0	1061.7
25°	1006.8	1021.9	1021.9	1035.2	1040.9
27.5°	978.4	995.4	996.3	1009.6	1014.3
30°	949.0	966.0	968.9	983.1	990.7
32.5°	918.7	934.8	939.5	955.6	961.3
35°	883.6	902.6	908.3	926.3	933.8
37.5°	851.4	868.5	876.1	895.0	902.6
40°	815.5	833.4	842.0	862.8	870.4
42.5°	778.5	796.5	806.0	828.7	836.3
45°	741.6	757.7	770.0	792.7	801.2
47.5°	700.9	718.8	732.1	756.7	765.3
50°	659.2	678.1	693.3	719.8	728.3
52.5°	619.4	636.5	653.5	682.9	692.3
55°	575.8	592.9	612.8	642.1	651.6
57.5°	531.3	548.4	571.1	602.4	612.8
60°	486.8	503.9	529.4	561.6	572.0
62.5°	440.4	457.4	485.9	519.0	528.5
65°	394.0	412.0	440.4	477.3	486.8
67.5°	346.6	364.6	394.9	433.8	444.2
70°	298.3	318.2	350.4	389.3	398.7
72.5°	248.1	270.9	306.9	344.7	356.1
75°	200.8	223.5	261.4	300.2	311.6
77.5°	154.4	179.9	217.8	258.6	270.9
80°	110.8	136.4	176.2	215.9	227.3
82.5°	71.0	97.6	137.3	175.2	184.7
85°	37.9	62.5	98.5	122.2	126.0
87.5°	12.3	32.2	44.5	58.7	59.7
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	13.54	15.21	13.90	15.52	15.83	14.26	15.93	14.62	16.24	16.56
	3H	15.32	16.84	15.70	17.16	17.52	16.42	17.94	16.80	18.27	18.63
	4H	15.95	17.38	16.35	17.73	18.11	17.36	18.79	17.75	19.14	19.51
	6H	16.38	17.71	16.79	18.07	18.46	18.22	19.55	18.63	19.91	20.30
	8H	16.49	17.76	16.91	18.15	18.55	18.59	19.87	19.02	20.25	20.65
	12H	16.55	17.77	16.97	18.15	18.58	18.90	20.12	19.33	20.51	20.93
4H	2H	14.30	15.73	14.70	16.08	16.45	14.86	16.29	15.26	16.64	17.01
	3H	16.32	17.53	16.73	17.93	18.33	17.27	18.48	17.68	18.88	19.28
	4H	17.08	18.18	17.51	18.59	19.03	18.37	19.47	18.81	19.88	20.32
	6H	17.64	18.60	18.09	19.04	19.49	19.42	20.38	19.87	20.82	21.27
	8H	17.80	18.70	18.25	19.14	19.61	19.88	20.78	20.34	21.22	21.69
	12H	17.89	18.71	18.37	19.18	19.65	20.28	21.09	20.75	21.57	22.03
8H	4H	17.57	18.48	18.03	18.92	19.38	18.69	19.60	19.15	20.04	20.50
	6H	18.28	19.04	18.77	19.52	20.00	19.91	20.67	20.40	21.15	21.63
	8H	18.52	19.20	19.03	19.71	20.19	20.51	21.19	21.01	21.69	22.17
	12H	18.69	19.30	19.20	19.79	20.34	21.05	21.65	21.55	22.14	22.70
12H	4H	17.68	18.49	18.15	18.96	19.43	18.72	19.54	19.20	20.01	20.48
	6H	18.44	19.12	18.95	19.63	20.11	19.97	20.65	20.48	21.16	21.64
	8H	18.77	19.37	19.27	19.86	20.42	20.65	21.25	21.15	21.74	22.30