

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: P1588584

Luminaire Tested: 24CZSP-A-37HE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-37HE-L935-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

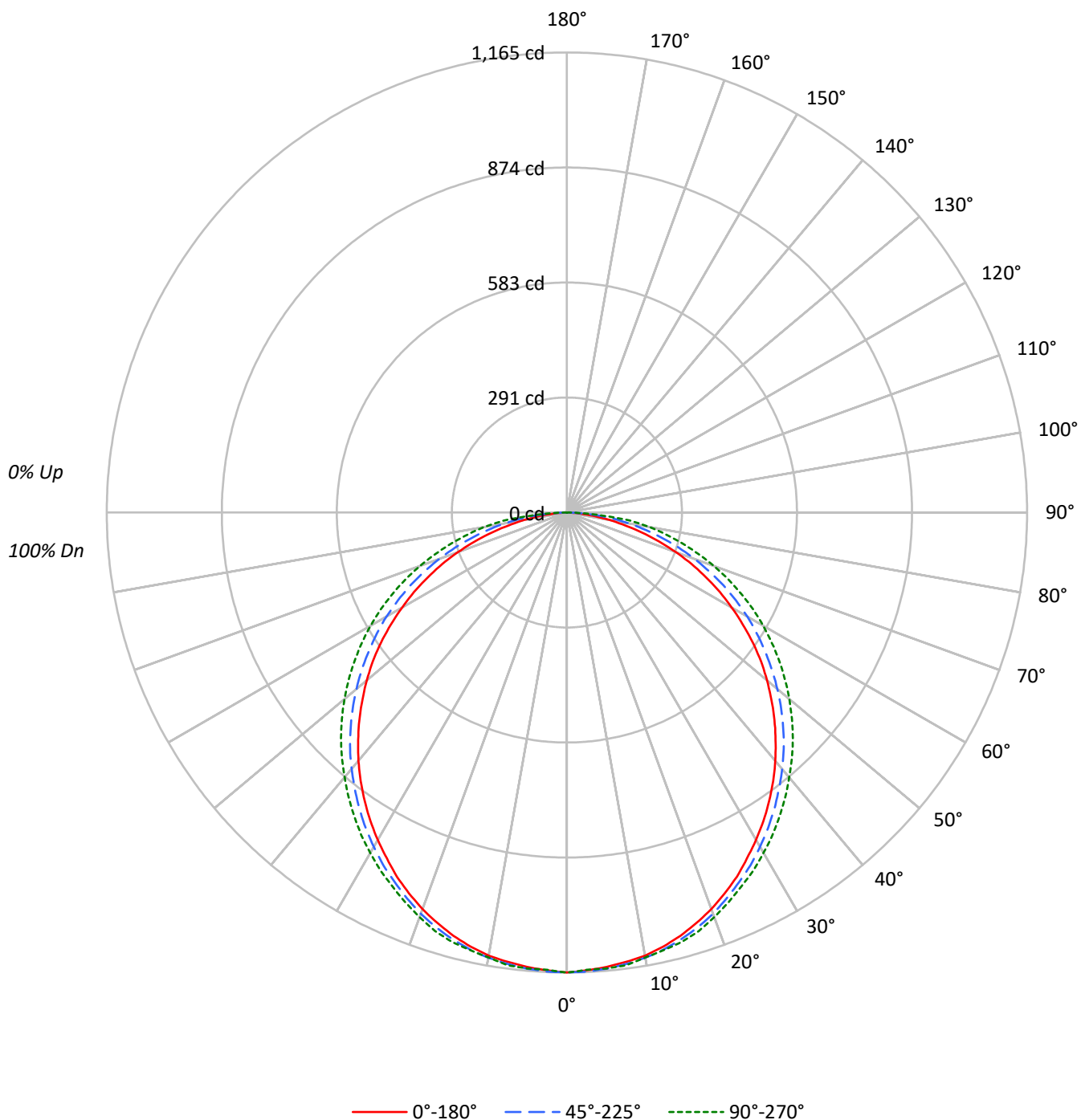
Lumens per Lamp: N/A
Luminaire Lumens: 3401.0 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1784	1784	1784
5°	1776	1783	1782
10°	1772	1780	1779
15°	1760	1774	1784
20°	1742	1763	1777
25°	1720	1744	1766
30°	1693	1729	1761
35°	1669	1712	1755
40°	1641	1695	1750
45°	1610	1678	1752
50°	1575	1657	1752
55°	1534	1634	1754
60°	1477	1616	1758
65°	1409	1585	1764
70°	1313	1540	1771
75°	1171	1479	1788
80°	968	1409	1876
85°	629	1272	1640

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 1935 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.2	3.2
10°-20°	315.5	9.3
20°-30°	475.8	14.0
30°-40°	573.1	16.8
40°-50°	598.5	17.6
50°-60°	549.6	16.2
60°-70°	432.9	12.7
70°-80°	265.6	7.8
80°-90°	79.9	2.4
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°	901.4	26.5
0°-40°	1474.5	43.4
0°-60°	2622.6	77.1
0°-90°	3401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3401.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1165	1165	1165	1165	1165	
5°	1155	1157	1160	1163	1159	110
15°	1110	1112	1119	1125	1125	313
25°	1018	1020	1032	1045	1045	469
35°	892	897	916	934	939	558
45°	743	752	775	802	809	573
55°	575	585	612	646	657	513
65°	389	402	437	474	487	385
75°	198	213	250	290	302	210
85°	36	49	72	92	93	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1164.9	1164.9	1164.9	1164.9	1164.9
2.5°	1160.5	1162.7	1163.4	1164.2	1159.0
5°	1155.2	1156.7	1159.7	1163.4	1159.0
7.5°	1147.8	1149.3	1153.0	1158.2	1156.0
10°	1139.6	1140.3	1144.8	1148.5	1144.0
12.5°	1126.1	1128.4	1133.6	1136.6	1135.1
15°	1109.7	1111.9	1118.7	1125.4	1125.4
17.5°	1090.3	1093.3	1101.5	1110.5	1111.2
20°	1068.7	1070.9	1081.4	1090.3	1090.3
22.5°	1044.0	1047.0	1057.5	1067.2	1068.7
25°	1017.9	1020.2	1032.1	1044.8	1044.8
27.5°	987.3	991.8	1006.7	1019.4	1022.4
30°	957.5	961.2	977.6	993.3	995.5
32.5°	926.1	930.6	947.8	964.9	968.7
35°	892.5	897.0	915.7	934.3	938.8
37.5°	857.5	862.7	882.1	903.7	908.2
40°	820.9	826.9	847.8	870.9	875.4
42.5°	782.1	790.3	812.7	836.6	843.3
45°	743.3	751.5	774.6	801.5	809.0
47.5°	702.2	711.9	735.8	764.2	772.4
50°	661.2	670.9	695.5	726.1	735.1
52.5°	619.4	629.1	654.5	686.6	696.3
55°	574.6	585.1	611.9	646.3	656.7
57.5°	528.4	541.8	570.2	605.2	615.7
60°	482.1	495.5	527.6	561.9	573.9
62.5°	436.6	449.3	482.1	518.7	531.3
65°	388.8	402.2	437.3	473.9	486.6
67.5°	341.8	355.2	390.3	428.4	441.8
70°	293.3	308.2	344.0	382.1	395.5
72.5°	244.8	260.4	297.0	335.8	348.5
75°	197.8	213.4	250.0	289.6	302.2
77.5°	151.5	168.7	204.5	244.8	256.7
80°	109.7	126.1	159.7	199.3	212.7
82.5°	70.1	84.3	117.9	155.2	164.9
85°	35.8	49.3	72.4	91.8	93.3
87.5°	11.2	15.7	23.9	35.8	36.6
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	13.49	15.15	13.85	15.47	15.78	14.32	15.98	14.68	16.30	16.61
	3H	15.25	16.75	15.62	17.08	17.44	16.44	17.94	16.81	18.27	18.63
	4H	15.86	17.29	16.26	17.63	18.01	17.33	18.75	17.72	19.09	19.47
	6H	16.27	17.60	16.69	17.96	18.35	18.11	19.43	18.52	19.79	20.18
	8H	16.38	17.64	16.81	18.03	18.43	18.43	19.69	18.85	20.08	20.48
	12H	16.43	17.64	16.86	18.03	18.45	18.64	19.85	19.07	20.23	20.66
4H	2H	14.26	15.68	14.66	16.03	16.41	14.91	16.33	15.31	16.68	17.05
	3H	16.24	17.44	16.65	17.83	18.23	17.26	18.46	17.67	18.86	19.26
	4H	16.98	18.06	17.41	18.47	18.91	18.31	19.40	18.75	19.81	20.25
	6H	17.50	18.46	17.96	18.90	19.35	19.27	20.22	19.72	20.66	21.11
	8H	17.65	18.54	18.11	18.98	19.45	19.66	20.56	20.12	21.00	21.46
	12H	17.73	18.54	18.21	19.01	19.48	19.94	20.74	20.42	21.22	21.69
8H	4H	17.43	18.33	17.89	18.77	19.23	18.60	19.50	19.06	19.94	20.40
	6H	18.10	18.84	18.59	19.33	19.80	19.72	20.46	20.21	20.95	21.42
	8H	18.31	18.97	18.81	19.48	19.96	20.23	20.90	20.73	21.40	21.89
	12H	18.45	19.04	18.95	19.53	20.09	20.61	21.21	21.12	21.69	22.25
12H	4H	17.52	18.33	18.00	18.80	19.27	18.63	19.43	19.11	19.91	20.37
	6H	18.23	18.90	18.73	19.40	19.89	19.76	20.43	20.27	20.94	21.42
	8H	18.51	19.10	19.01	19.59	20.15	20.34	20.93	20.85	21.42	21.98