

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: P1588724

Luminaire Tested: 24CZSP-A-57-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588724
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-57-L935-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

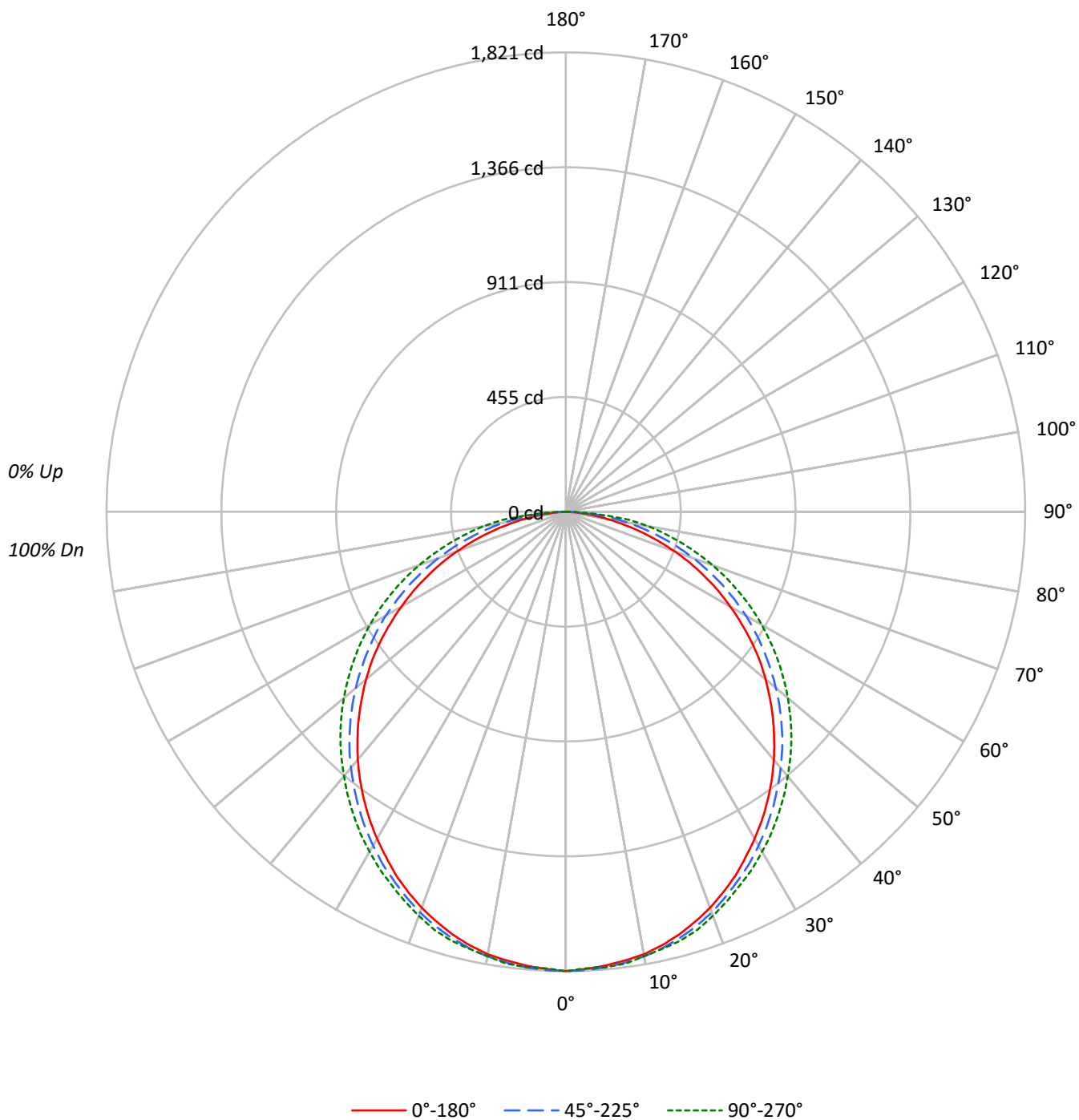
Lumens per Lamp: N/A
Luminaire Lumens: 5316.0 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9
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: P1588724

CATALOG NUMBER: 24CZSP-A-57-L935-S

Luminous Intensity Polar Plot



TEST NUMBER: P1588724

CATALOG NUMBER: 24CZSP-A-57-L935-S

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	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°	2789	2789	2789
5°	2776	2787	2785
10°	2770	2783	2781
15°	2750	2773	2789
20°	2723	2755	2778
25°	2689	2726	2760
30°	2647	2703	2752
35°	2609	2676	2744
40°	2565	2649	2736
45°	2517	2623	2739
50°	2463	2591	2738
55°	2398	2554	2741
60°	2308	2526	2748
65°	2202	2477	2756
70°	2053	2408	2768
75°	1829	2313	2796
80°	1513	2202	2932
85°	984	1988	2562

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3025 cd/sqm

TEST NUMBER: P1588724

CATALOG NUMBER: 24CZSP-A-57-L935-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.2	3.2
10°-20°	493.1	9.3
20°-30°	743.7	14.0
30°-40°	895.7	16.8
40°-50°	935.5	17.6
50°-60°	859.1	16.2
60°-70°	676.7	12.7
70°-80°	415.1	7.8
80°-90°	124.9	2.3
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°	1409.0	26.5
0°-40°	2304.7	43.4
0°-60°	4099.3	77.1
0°-90°	5316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5316.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1821	1821	1821	1821	1821	
5°	1806	1808	1813	1818	1812	172
15°	1735	1738	1749	1759	1759	489
25°	1591	1595	1613	1633	1633	732
35°	1395	1402	1431	1460	1467	873
45°	1162	1175	1211	1253	1264	896
55°	898	914	956	1010	1026	802
65°	608	629	684	741	760	601
75°	309	334	391	453	472	328
85°	56	77	113	144	146	73
90°	0	0	0	0	0	

TEST NUMBER: P1588724

CATALOG NUMBER: 24CZSP-A-57-L935-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1820.9	1820.9	1820.9	1820.9	1820.9
2.5°	1813.9	1817.4	1818.5	1819.7	1811.5
5°	1805.7	1808.0	1812.7	1818.5	1811.5
7.5°	1794.0	1796.4	1802.2	1810.4	1806.9
10°	1781.2	1782.4	1789.4	1795.2	1788.2
12.5°	1760.2	1763.7	1771.9	1776.5	1774.2
15°	1734.6	1738.1	1748.6	1759.0	1759.0
17.5°	1704.2	1708.9	1721.7	1735.7	1736.9
20°	1670.4	1673.9	1690.2	1704.2	1704.2
22.5°	1631.9	1636.6	1652.9	1668.1	1670.4
25°	1591.1	1594.6	1613.2	1633.1	1633.1
27.5°	1543.3	1550.2	1573.6	1593.4	1598.1
30°	1496.6	1502.4	1528.1	1552.6	1556.1
32.5°	1447.6	1454.6	1481.4	1508.3	1514.1
35°	1395.1	1402.1	1431.3	1460.4	1467.4
37.5°	1340.3	1348.4	1378.8	1412.6	1419.6
40°	1283.1	1292.5	1325.1	1361.3	1368.3
42.5°	1222.5	1235.3	1270.3	1307.6	1318.1
45°	1161.8	1174.6	1210.8	1252.8	1264.5
47.5°	1097.7	1112.8	1150.1	1194.5	1207.3
50°	1033.5	1048.7	1087.2	1135.0	1149.0
52.5°	968.2	983.3	1023.0	1073.2	1088.3
55°	898.2	914.5	956.5	1010.2	1026.5
57.5°	825.9	846.9	891.2	946.0	962.3
60°	753.5	774.5	824.7	878.4	897.0
62.5°	682.4	702.2	753.5	810.7	830.5
65°	607.7	628.7	683.6	740.7	760.5
67.5°	534.2	555.2	610.1	669.6	690.6
70°	458.4	481.8	537.7	597.2	618.2
72.5°	382.6	407.1	464.3	524.9	544.7
75°	309.1	333.6	390.8	452.6	472.4
77.5°	236.8	263.6	319.6	382.6	401.3
80°	171.5	197.1	249.6	311.4	332.4
82.5°	109.6	131.8	184.3	242.6	257.8
85°	56.0	77.0	113.1	143.5	145.8
87.5°	17.5	24.5	37.3	56.0	57.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588724

CATALOG NUMBER: 24CZSP-A-57-L935-S

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	15.04	16.70	15.41	17.02	17.33	15.87	17.53	16.24	17.85	18.16
	3H	16.80	18.30	17.17	18.63	18.99	17.99	19.50	18.36	19.82	20.18
	4H	17.42	18.84	17.81	19.19	19.56	18.88	20.30	19.27	20.65	21.02
	6H	17.83	19.15	18.24	19.51	19.90	19.66	20.98	20.07	21.34	21.73
	8H	17.93	19.20	18.36	19.59	19.98	19.98	21.24	20.40	21.63	22.03
	12H	17.99	19.20	18.41	19.58	20.01	20.19	21.40	20.62	21.78	22.21
4H	2H	15.81	17.24	16.21	17.58	17.96	16.46	17.88	16.86	18.23	18.60
	3H	17.79	18.99	18.20	19.39	19.78	18.81	20.01	19.22	20.41	20.81
	4H	18.53	19.61	18.96	20.03	20.46	19.87	20.95	20.30	21.37	21.80
	6H	19.06	20.01	19.51	20.45	20.90	20.82	21.77	21.27	22.21	22.66
	8H	19.20	20.09	19.66	20.54	21.00	21.22	22.11	21.68	22.55	23.01
	12H	19.29	20.09	19.76	20.56	21.03	21.49	22.30	21.97	22.77	23.24
8H	4H	18.99	19.88	19.45	20.32	20.78	20.16	21.05	20.61	21.49	21.95
	6H	19.65	20.39	20.14	20.88	21.35	21.27	22.01	21.76	22.50	22.97
	8H	19.86	20.53	20.37	21.03	21.52	21.78	22.45	22.29	22.95	23.44
	12H	20.00	20.59	20.50	21.08	21.64	22.16	22.76	22.67	23.25	23.80
12H	4H	19.08	19.88	19.55	20.35	20.82	20.18	20.98	20.66	21.46	21.93
	6H	19.78	20.45	20.29	20.95	21.44	21.31	21.98	21.82	22.49	22.97
	8H	20.06	20.65	20.56	21.14	21.70	21.89	22.48	22.40	22.97	23.53