

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: P1588727

Luminaire Tested: 24CZSP-A-57-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2604-747-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-57-L940
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 5000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

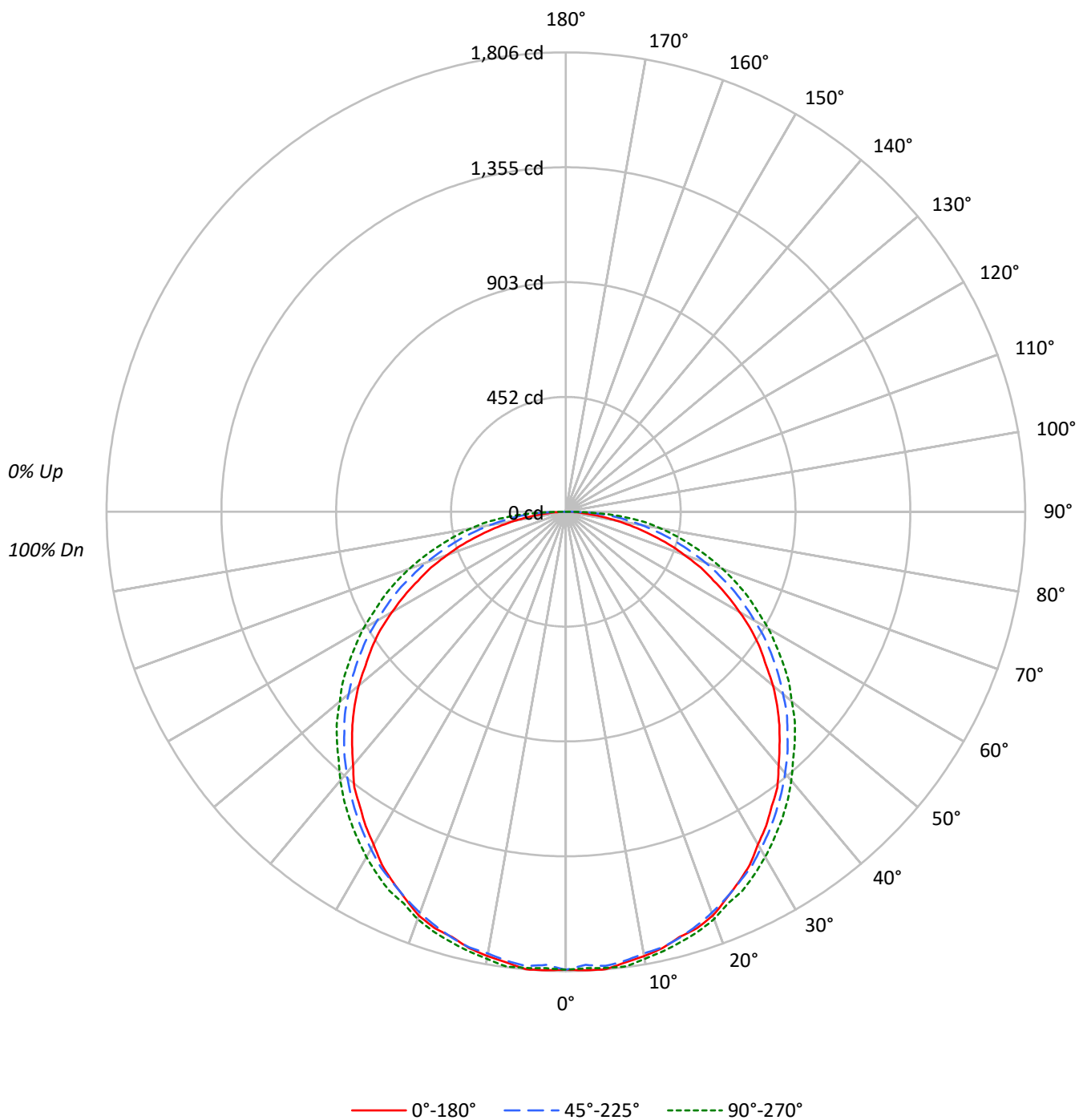
Lumens per Lamp: N/A
Luminaire Lumens: 5495.0 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1588727

CATALOG NUMBER: 24CZSP-A-57-L940

Luminous Intensity Polar Plot



TEST NUMBER: P1588727

CATALOG NUMBER: 24CZSP-A-57-L940

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	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	100	96	92	96	93	89	92	89	87	89	86	84	82		
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67		
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56		
4	81	69	60	53	79	67	59	52	65	57	51	62	56	51	60	55	50	48		
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41		
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36		
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32		
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28		
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25		
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2757	2757	2757
5°	2776	2756	2768
10°	2759	2743	2775
15°	2744	2748	2775
20°	2754	2735	2778
25°	2715	2720	2778
30°	2672	2709	2772
35°	2640	2694	2766
40°	2602	2681	2758
45°	2571	2668	2757
50°	2534	2656	2763
55°	2488	2646	2787
60°	2419	2628	2818
65°	2323	2628	2862
70°	2216	2611	2929
75°	2040	2617	3037
80°	1788	2670	3343
85°	1364	3075	4001

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 4435 cd/sqm

TEST NUMBER: P1588727

CATALOG NUMBER: 24CZSP-A-57-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.9	3.1
10°-20°	491.4	8.9
20°-30°	746.4	13.6
30°-40°	904.2	16.5
40°-50°	951.2	17.3
50°-60°	884.5	16.1
60°-70°	712.1	13.0
70°-80°	461.3	8.4
80°-90°	173.0	3.1
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°	1408.7	25.6
0°-40°	2312.8	42.1
0°-60°	4148.5	75.5
0°-90°	5495.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5495.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1800	1800	1800	1800	1800	
5°	1806	1803	1792	1803	1800	171
15°	1730	1737	1733	1754	1750	490
25°	1607	1606	1610	1637	1644	741
35°	1412	1423	1441	1466	1479	885
45°	1187	1203	1232	1258	1273	915
55°	932	955	991	1030	1044	831
65°	641	670	725	768	790	637
75°	345	379	442	494	513	366
85°	78	114	175	218	228	95
90°	0	0	0	0	0	

TEST NUMBER: P1588727

CATALOG NUMBER: 24CZSP-A-57-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1800.3	1800.3	1800.3	1800.3	1800.3
2.5°	1804.2	1804.2	1783.2	1805.6	1796.3
5°	1805.6	1802.9	1792.4	1802.9	1800.3
7.5°	1787.1	1789.8	1780.5	1793.7	1802.9
10°	1774.0	1776.6	1763.4	1784.5	1784.5
12.5°	1756.9	1759.5	1754.2	1774.0	1770.0
15°	1730.5	1737.1	1733.2	1754.2	1750.3
17.5°	1716.1	1710.8	1706.9	1722.6	1730.5
20°	1689.7	1677.9	1677.9	1699.0	1704.2
22.5°	1647.6	1643.7	1645.0	1671.3	1666.1
25°	1606.8	1605.5	1609.5	1637.1	1643.7
27.5°	1566.0	1563.4	1575.3	1601.6	1606.8
30°	1510.8	1516.0	1531.8	1560.8	1567.4
32.5°	1464.7	1473.9	1488.4	1516.0	1523.9
35°	1412.1	1422.6	1441.0	1466.0	1479.2
37.5°	1366.0	1372.6	1392.3	1416.0	1431.8
40°	1301.5	1318.6	1341.0	1375.2	1379.2
42.5°	1243.6	1260.7	1289.7	1326.5	1322.6
45°	1187.0	1202.8	1231.8	1258.1	1272.6
47.5°	1126.5	1141.0	1179.1	1210.7	1221.2
50°	1063.3	1081.8	1114.7	1147.6	1159.4
52.5°	992.3	1012.0	1054.1	1089.6	1106.8
55°	931.7	955.4	990.9	1030.4	1043.6
57.5°	864.6	884.4	927.8	967.3	980.4
60°	789.6	813.3	858.0	900.1	919.9
62.5°	717.2	743.5	790.9	834.3	850.1
65°	640.9	669.8	725.1	768.5	789.6
67.5°	575.1	598.8	652.7	701.4	723.8
70°	494.8	526.4	583.0	636.9	654.1
72.5°	423.8	451.4	510.6	564.6	585.6
75°	344.8	379.0	442.2	493.5	513.2
77.5°	272.4	307.9	371.1	425.1	447.4
80°	202.7	236.9	302.7	358.0	379.0
82.5°	136.9	171.1	236.9	290.8	314.5
85°	77.6	114.5	175.0	218.5	227.7
87.5°	34.2	65.8	98.7	118.4	126.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588727

CATALOG NUMBER: 24CZSP-A-57-L940

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	15.21	16.89	15.57	17.20	17.52	15.88	17.56	16.25	17.88	18.19
	3H	17.06	18.59	17.44	18.92	19.28	18.10	19.63	18.48	19.95	20.31
	4H	17.75	19.19	18.15	19.54	19.91	19.06	20.51	19.46	20.86	21.23
	6H	18.24	19.58	18.65	19.95	20.34	19.96	21.30	20.37	21.66	22.05
	8H	18.39	19.67	18.81	20.06	20.46	20.36	21.64	20.78	22.03	22.43
	12H	18.48	19.71	18.91	20.09	20.52	20.72	21.95	21.15	22.33	22.76
4H	2H	16.00	17.45	16.40	17.79	18.17	16.52	17.97	16.92	18.31	18.69
	3H	18.09	19.31	18.50	19.71	20.11	18.98	20.20	19.39	20.60	21.00
	4H	18.91	20.02	19.34	20.43	20.87	20.11	21.22	20.54	21.63	22.07
	6H	19.53	20.51	19.99	20.95	21.40	21.18	22.16	21.63	22.59	23.05
	8H	19.73	20.65	20.19	21.09	21.55	21.67	22.59	22.13	23.03	23.49
	12H	19.87	20.69	20.34	21.17	21.63	22.12	22.95	22.60	23.42	23.89
8H	4H	19.42	20.33	19.88	20.77	21.24	20.45	21.37	20.91	21.81	22.27
	6H	20.20	20.97	20.69	21.46	21.93	21.70	22.47	22.19	22.96	23.43
	8H	20.49	21.18	20.99	21.68	22.16	22.33	23.02	22.83	23.52	24.00
	12H	20.70	21.32	21.21	21.81	22.36	22.94	23.55	23.44	24.04	24.60
12H	4H	19.53	20.35	20.00	20.83	21.29	20.49	21.32	20.97	21.79	22.26
	6H	20.37	21.06	20.87	21.56	22.05	21.78	22.47	22.28	22.97	23.46
	8H	20.74	21.35	21.24	21.84	22.40	22.48	23.09	22.99	23.58	24.14