

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: P1588729

Luminaire Tested: 24CZSP-A-57-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588729
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-L945
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 5000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

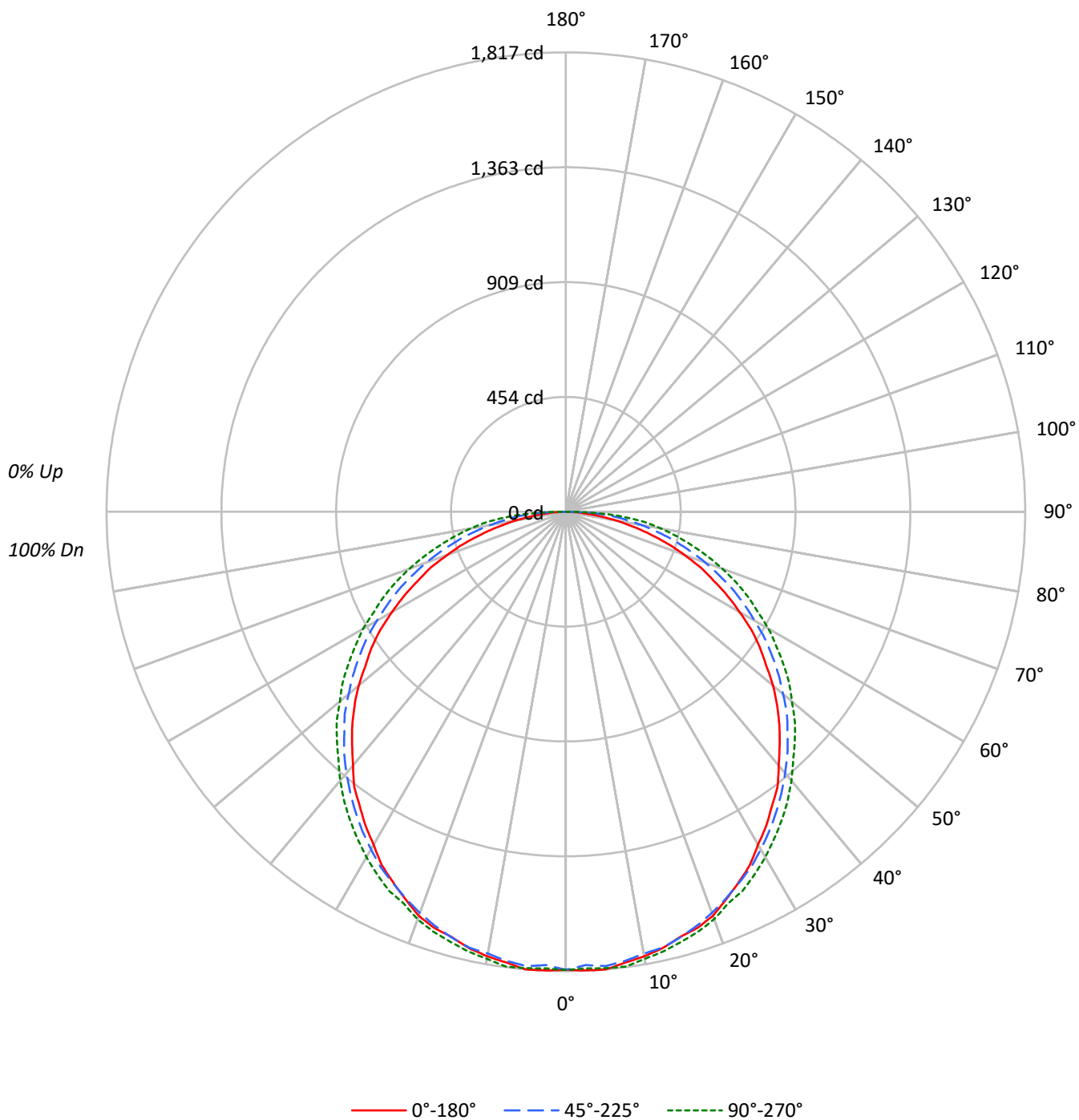
Lumens per Lamp: N/A
Luminaire Lumens: 5530.0 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	98	94	105	100	96	92	96	93	89		92	89	87		89
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68
4	81	69	60	53	79	67	59	52	65	57	51		62	56	51		60
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		49
7	64	50	41	35	62	49	40	34	47	40	34		46	39	34		45
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2775	2775	2775
5°	2794	2773	2786
10°	2777	2760	2793
15°	2762	2766	2793
20°	2772	2752	2795
25°	2733	2737	2796
30°	2689	2726	2790
35°	2657	2712	2783
40°	2619	2698	2775
45°	2588	2685	2774
50°	2550	2673	2780
55°	2504	2663	2804
60°	2434	2645	2836
65°	2338	2645	2880
70°	2230	2627	2948
75°	2053	2633	3057
80°	1799	2687	3364
85°	1372	3095	4026

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 4463 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.0	3.1
10°-20°	494.5	8.9
20°-30°	751.2	13.6
30°-40°	909.9	16.5
40°-50°	957.3	17.3
50°-60°	890.1	16.1
60°-70°	716.7	13.0
70°-80°	464.3	8.4
80°-90°	174.1	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°	1417.7	25.6
0°-40°	2327.6	42.1
0°-60°	4175.0	75.5
0°-90°	5530.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5530.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1812	1812	1812	1812	1812	
5°	1817	1814	1804	1814	1812	172
15°	1742	1748	1744	1765	1761	493
25°	1617	1616	1620	1648	1654	745
35°	1421	1432	1450	1475	1489	890
45°	1195	1210	1240	1266	1281	921
55°	938	962	997	1037	1050	836
65°	645	674	730	773	795	641
75°	347	381	445	497	516	369
85°	78	115	176	220	229	96
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1811.8	1811.8	1811.8	1811.8	1811.8
2.5°	1815.7	1815.7	1794.5	1817.1	1807.8
5°	1817.1	1814.4	1803.8	1814.4	1811.8
7.5°	1798.5	1801.2	1791.9	1805.1	1814.4
10°	1785.3	1787.9	1774.7	1795.9	1795.9
12.5°	1768.0	1770.7	1765.4	1785.3	1781.3
15°	1741.6	1748.2	1744.2	1765.4	1761.4
17.5°	1727.0	1721.7	1717.7	1733.6	1741.6
20°	1700.5	1688.6	1688.6	1709.8	1715.1
22.5°	1658.1	1654.2	1655.5	1682.0	1676.7
25°	1617.1	1615.7	1619.7	1647.5	1654.2
27.5°	1576.0	1573.4	1585.3	1611.8	1617.1
30°	1520.4	1525.7	1541.6	1570.7	1577.3
32.5°	1474.0	1483.3	1497.9	1525.7	1533.6
35°	1421.1	1431.7	1450.2	1475.4	1488.6
37.5°	1374.7	1381.3	1401.2	1425.0	1440.9
40°	1309.8	1327.0	1349.5	1384.0	1388.0
42.5°	1251.5	1268.8	1297.9	1335.0	1331.0
45°	1194.6	1210.5	1239.6	1266.1	1280.7
47.5°	1133.7	1148.2	1186.6	1218.4	1229.0
50°	1070.1	1088.6	1121.8	1154.9	1166.8
52.5°	998.6	1018.4	1060.8	1096.6	1113.8
55°	937.7	961.5	997.3	1037.0	1050.2
57.5°	870.1	890.0	933.7	973.4	986.7
60°	794.6	818.5	863.5	905.9	925.7
62.5°	721.8	748.3	796.0	839.7	855.6
65°	645.0	674.1	729.7	773.4	794.6
67.5°	578.8	602.6	656.9	705.9	728.4
70°	498.0	529.8	586.7	641.0	658.2
72.5°	426.5	454.3	513.9	568.2	589.3
75°	347.0	381.4	445.0	496.6	516.5
77.5°	274.1	309.9	373.5	427.8	450.3
80°	204.0	238.4	304.6	360.2	381.4
82.5°	137.7	172.2	238.4	292.7	316.5
85°	78.1	115.2	176.1	219.8	229.1
87.5°	34.4	66.2	99.3	119.2	127.1
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	15.23	16.91	15.59	17.23	17.54	15.90	17.59	16.27	17.90	18.21
	3H	17.08	18.61	17.46	18.94	19.30	18.12	19.65	18.50	19.98	20.34
	4H	17.77	19.22	18.17	19.56	19.94	19.09	20.53	19.48	20.88	21.25
	6H	18.26	19.61	18.67	19.97	20.36	19.98	21.32	20.39	21.68	22.07
	8H	18.41	19.70	18.83	20.08	20.48	20.38	21.67	20.80	22.05	22.45
	12H	18.50	19.73	18.93	20.11	20.54	20.74	21.97	21.17	22.35	22.78
4H	2H	16.02	17.47	16.42	17.81	18.19	16.54	17.99	16.94	18.33	18.71
	3H	18.11	19.33	18.52	19.73	20.13	19.00	20.22	19.41	20.62	21.02
	4H	18.93	20.04	19.36	20.45	20.89	20.13	21.24	20.56	21.65	22.09
	6H	19.56	20.53	20.01	20.97	21.42	21.20	22.18	21.65	22.62	23.07
	8H	19.75	20.67	20.21	21.11	21.57	21.69	22.61	22.15	23.05	23.51
	12H	19.89	20.71	20.37	21.19	21.66	22.14	22.97	22.62	23.44	23.91
8H	4H	19.44	20.35	19.90	20.80	21.26	20.47	21.39	20.93	21.83	22.29
	6H	20.22	20.99	20.72	21.48	21.95	21.72	22.49	22.22	22.98	23.45
	8H	20.51	21.20	21.01	21.70	22.19	22.35	23.04	22.85	23.54	24.03
	12H	20.73	21.34	21.23	21.83	22.38	22.96	23.57	23.46	24.06	24.62
12H	4H	19.55	20.37	20.03	20.85	21.31	20.51	21.34	20.99	21.81	22.28
	6H	20.39	21.08	20.90	21.59	22.07	21.80	22.49	22.30	22.99	23.48
	8H	20.76	21.37	21.27	21.86	22.42	22.50	23.12	23.01	23.61	24.16