

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: P1588719

Luminaire Tested: 24CZSP-A-57-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588719
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-L845
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 5000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

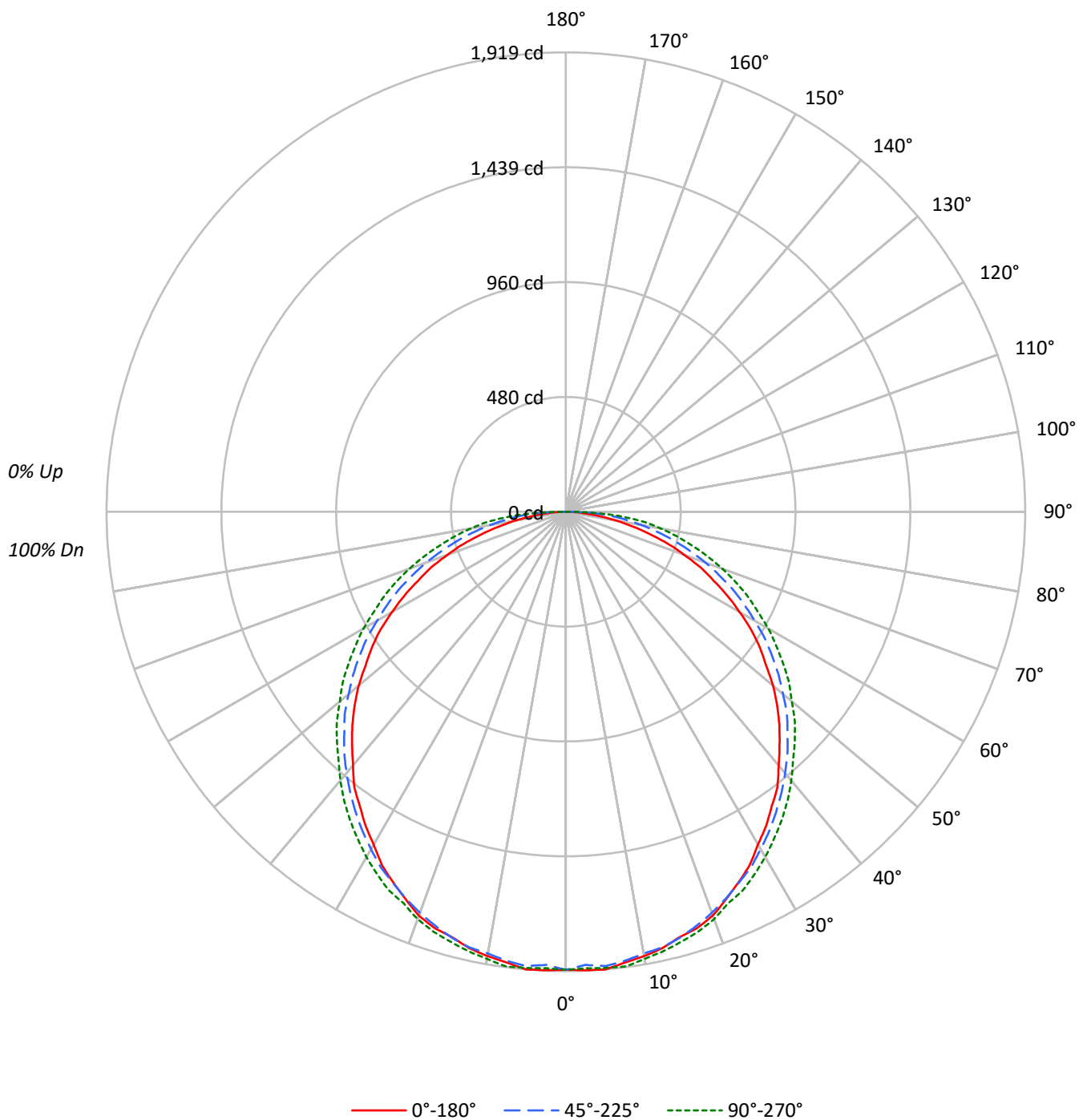
Lumens per Lamp: N/A
Luminaire Lumens: 5839.0 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	2930	2930	2930
5°	2950	2928	2941
10°	2932	2914	2949
15°	2916	2920	2949
20°	2927	2906	2952
25°	2885	2890	2952
30°	2839	2879	2946
35°	2806	2863	2939
40°	2765	2849	2930
45°	2732	2835	2929
50°	2692	2822	2936
55°	2644	2812	2961
60°	2570	2793	2994
65°	2468	2792	3041
70°	2355	2774	3112
75°	2168	2781	3228
80°	1900	2837	3552
85°	1450	3269	4251

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 4712 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.6	3.1
10°-20°	522.1	8.9
20°-30°	793.1	13.6
30°-40°	960.8	16.5
40°-50°	1010.8	17.3
50°-60°	939.8	16.1
60°-70°	756.7	13.0
70°-80°	490.2	8.4
80°-90°	183.8	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°	1496.9	25.6
0°-40°	2457.6	42.1
0°-60°	4408.3	75.5
0°-90°	5839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5839.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1913	1913	1913	1913	1913	
5°	1919	1916	1905	1916	1913	182
15°	1839	1846	1842	1864	1860	521
25°	1707	1706	1710	1740	1747	787
35°	1500	1512	1531	1558	1572	940
45°	1261	1278	1309	1337	1352	972
55°	990	1015	1053	1095	1109	883
65°	681	712	770	817	839	677
75°	366	403	470	524	545	389
85°	82	122	186	232	242	101
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1913.0	1913.0	1913.0	1913.0	1913.0
2.5°	1917.2	1917.2	1894.8	1918.6	1908.8
5°	1918.6	1915.8	1904.6	1915.8	1913.0
7.5°	1899.0	1901.8	1892.0	1906.0	1915.8
10°	1885.0	1887.8	1873.8	1896.2	1896.2
12.5°	1866.8	1869.6	1864.0	1885.0	1880.8
15°	1838.9	1845.9	1841.7	1864.0	1859.8
17.5°	1823.5	1817.9	1813.7	1830.5	1838.9
20°	1795.5	1782.9	1782.9	1805.3	1810.9
22.5°	1750.8	1746.6	1748.0	1775.9	1770.4
25°	1707.4	1706.0	1710.2	1739.6	1746.6
27.5°	1664.1	1661.3	1673.9	1701.8	1707.4
30°	1605.3	1610.9	1627.7	1658.5	1665.5
32.5°	1556.4	1566.2	1581.6	1610.9	1619.3
35°	1500.5	1511.7	1531.2	1557.8	1571.8
37.5°	1451.5	1458.5	1479.5	1504.7	1521.4
40°	1383.0	1401.2	1425.0	1461.3	1465.5
42.5°	1321.5	1339.7	1370.4	1409.6	1405.4
45°	1261.3	1278.1	1308.9	1336.9	1352.2
47.5°	1197.0	1212.4	1253.0	1286.5	1297.7
50°	1129.9	1149.5	1184.4	1219.4	1232.0
52.5°	1054.4	1075.4	1120.1	1157.9	1176.0
55°	990.1	1015.2	1053.0	1094.9	1108.9
57.5°	918.7	939.7	985.9	1027.8	1041.8
60°	839.0	864.2	911.7	956.5	977.5
62.5°	762.1	790.1	840.4	886.6	903.4
65°	681.0	711.8	770.5	816.7	839.0
67.5°	611.1	636.3	693.6	745.3	769.1
70°	525.8	559.4	619.5	676.8	695.0
72.5°	450.3	479.6	542.6	599.9	622.3
75°	366.4	402.7	469.9	524.4	545.4
77.5°	289.5	327.2	394.3	451.7	475.5
80°	215.4	251.7	321.6	380.4	402.7
82.5°	145.4	181.8	251.7	309.0	334.2
85°	82.5	121.7	186.0	232.1	241.9
87.5°	36.4	69.9	104.9	125.9	134.2
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	15.42	17.10	15.78	17.41	17.73	16.09	17.78	16.46	18.09	18.40
	3H	17.27	18.80	17.65	19.13	19.49	18.31	19.84	18.69	20.17	20.52
	4H	17.96	19.40	18.36	19.75	20.13	19.28	20.72	19.67	21.07	21.44
	6H	18.45	19.79	18.86	20.16	20.55	20.17	21.51	20.58	21.87	22.26
	8H	18.60	19.88	19.02	20.27	20.67	20.57	21.86	20.99	22.24	22.64
	12H	18.69	19.92	19.12	20.30	20.73	20.93	22.16	21.36	22.54	22.97
4H	2H	16.21	17.66	16.61	18.00	18.38	16.73	18.18	17.13	18.52	18.90
	3H	18.30	19.52	18.71	19.92	20.32	19.19	20.41	19.60	20.81	21.21
	4H	19.12	20.23	19.55	20.64	21.08	20.32	21.43	20.75	21.84	22.28
	6H	19.75	20.72	20.20	21.16	21.61	21.39	22.37	21.84	22.81	23.26
	8H	19.94	20.86	20.40	21.30	21.76	21.88	22.80	22.34	23.24	23.70
	12H	20.08	20.90	20.56	21.38	21.84	22.33	23.16	22.81	23.63	24.10
8H	4H	19.63	20.54	20.09	20.98	21.45	20.66	21.58	21.12	22.02	22.48
	6H	20.41	21.18	20.90	21.67	22.14	21.91	22.68	22.40	23.17	23.64
	8H	20.70	21.39	21.20	21.89	22.37	22.54	23.23	23.04	23.73	24.21
	12H	20.91	21.53	21.42	22.02	22.57	23.15	23.76	23.65	24.25	24.81
12H	4H	19.74	20.56	20.21	21.04	21.50	20.70	21.53	21.18	22.00	22.47
	6H	20.58	21.27	21.09	21.78	22.26	21.99	22.68	22.49	23.18	23.67
	8H	20.95	21.56	21.45	22.05	22.61	22.69	23.31	23.20	23.79	24.35