

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: P1588747

Luminaire Tested: 24CZSP-A-57HE-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2603-711-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-57HE-L940
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 5500 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

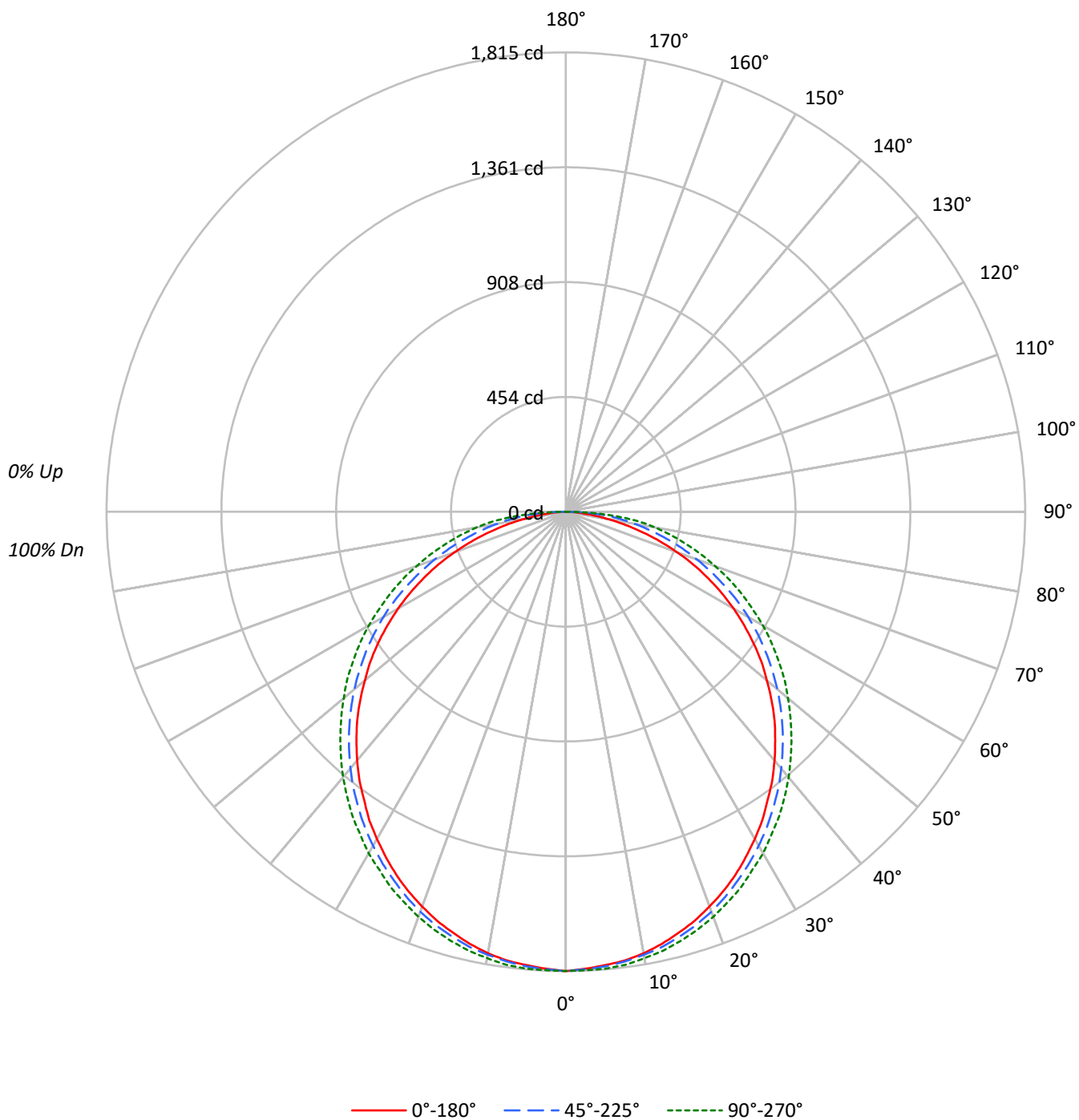
Lumens per Lamp: N/A
Luminaire Lumens: 5383.0 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 39.4
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	98	94	105	101	97	93	96	93	90		92	90	87		89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73		81	76	72		77	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	46	73	60	52	45	58	51	45		56	50	44		54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2779	2779	2779
5°	2765	2772	2785
10°	2755	2764	2785
15°	2731	2755	2783
20°	2705	2742	2776
25°	2676	2717	2767
30°	2640	2695	2756
35°	2599	2672	2747
40°	2565	2648	2738
45°	2527	2624	2730
50°	2471	2599	2730
55°	2419	2574	2737
60°	2346	2551	2757
65°	2246	2511	2775
70°	2102	2468	2809
75°	1869	2433	2901
80°	1537	2444	3154
85°	1047	2722	3481

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 3481 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.7	3.2
10°-20°	491.7	9.1
20°-30°	743.5	13.8
30°-40°	897.2	16.7
40°-50°	938.2	17.4
50°-60°	865.6	16.1
60°-70°	688.3	12.8
70°-80°	434.4	8.1
80°-90°	152.3	2.8
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°	1407.0	26.1
0°-40°	2304.2	42.8
0°-60°	4108.0	76.3
0°-90°	5383.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5383.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1815	1815	1815	1815	1815	
5°	1798	1812	1803	1807	1812	171
15°	1722	1742	1737	1751	1755	486
25°	1584	1608	1608	1628	1637	729
35°	1390	1420	1429	1457	1469	871
45°	1166	1192	1211	1247	1260	898
55°	906	933	964	1010	1025	809
65°	620	648	693	751	766	612
75°	316	352	411	472	490	335
85°	60	98	155	192	198	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1814.6	1814.6	1814.6	1814.6	1814.6
2.5°	1807.2	1819.1	1808.7	1814.6	1813.1
5°	1798.2	1811.6	1802.7	1807.2	1811.6
7.5°	1787.8	1802.7	1792.3	1799.7	1805.7
10°	1771.4	1786.3	1777.4	1786.3	1790.8
12.5°	1749.1	1767.0	1761.0	1771.4	1775.9
15°	1722.3	1741.6	1737.2	1750.6	1755.0
17.5°	1693.9	1714.8	1711.8	1726.7	1731.2
20°	1659.7	1683.5	1682.0	1696.9	1702.9
22.5°	1623.9	1647.8	1646.3	1662.7	1670.1
25°	1583.7	1607.5	1607.5	1628.4	1637.3
27.5°	1539.0	1565.8	1567.3	1588.2	1595.6
30°	1492.8	1519.6	1524.1	1546.5	1558.4
32.5°	1445.1	1470.5	1477.9	1503.3	1512.2
35°	1390.0	1419.8	1428.8	1457.1	1469.0
37.5°	1339.4	1366.2	1378.1	1407.9	1419.8
40°	1282.8	1311.1	1324.5	1357.2	1369.2
42.5°	1224.6	1253.0	1267.9	1303.6	1315.5
45°	1166.5	1191.9	1211.2	1247.0	1260.4
47.5°	1102.5	1130.8	1151.6	1190.4	1203.8
50°	1036.9	1066.7	1090.6	1132.3	1145.7
52.5°	974.4	1001.2	1028.0	1074.2	1089.1
55°	905.8	932.6	963.9	1010.1	1025.0
57.5°	835.8	862.6	898.4	947.5	963.9
60°	765.8	792.6	832.8	883.5	899.9
62.5°	692.8	719.6	764.3	816.4	831.3
65°	619.8	648.1	692.8	750.9	765.8
67.5°	545.3	573.6	621.3	682.3	698.7
70°	469.3	500.6	551.2	612.3	627.2
72.5°	390.3	426.1	482.7	542.3	560.2
75°	315.8	351.6	411.2	472.3	490.2
77.5°	242.8	283.1	342.7	406.7	426.1
80°	174.3	214.5	277.1	339.7	357.6
82.5°	111.7	153.5	216.0	275.6	290.5
85°	59.6	98.3	154.9	192.2	198.1
87.5°	19.4	50.7	70.0	92.4	93.9
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	15.11	16.78	15.47	17.09	17.41	15.83	17.50	16.19	17.81	18.13
	3H	16.90	18.41	17.27	18.74	19.10	18.00	19.51	18.37	19.84	20.20
	4H	17.53	18.96	17.92	19.31	19.68	18.93	20.36	19.33	20.71	21.08
	6H	17.95	19.28	18.36	19.64	20.03	19.79	21.12	20.20	21.48	21.87
	8H	18.06	19.33	18.48	19.72	20.12	20.17	21.44	20.59	21.83	22.23
	12H	18.12	19.34	18.55	19.72	20.15	20.48	21.70	20.91	22.08	22.51
4H	2H	15.87	17.31	16.27	17.65	18.03	16.43	17.87	16.83	18.21	18.59
	3H	17.90	19.10	18.30	19.50	19.90	18.85	20.05	19.25	20.45	20.85
	4H	18.66	19.76	19.09	20.17	20.60	19.95	21.05	20.38	21.46	21.89
	6H	19.21	20.18	19.66	20.62	21.07	20.99	21.95	21.44	22.39	22.85
	8H	19.37	20.27	19.83	20.72	21.18	21.45	22.36	21.91	22.80	23.26
	12H	19.47	20.28	19.95	20.76	21.23	21.85	22.67	22.33	23.14	23.61
8H	4H	19.15	20.05	19.60	20.49	20.95	20.27	21.17	20.72	21.61	22.07
	6H	19.85	20.61	20.35	21.10	21.57	21.48	22.24	21.97	22.73	23.20
	8H	20.10	20.78	20.60	21.28	21.76	22.08	22.76	22.59	23.26	23.75
	12H	20.27	20.87	20.77	21.36	21.92	22.62	23.23	23.13	23.72	24.27
12H	4H	19.25	20.06	19.73	20.54	21.01	20.30	21.11	20.78	21.59	22.05
	6H	20.01	20.70	20.52	21.20	21.68	21.55	22.23	22.05	22.73	23.22
	8H	20.34	20.94	20.84	21.43	21.99	22.22	22.83	22.73	23.31	23.87