

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: P1588736

Luminaire Tested: 24CZSP-A-57HE-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588736
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-57HE-L840-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 5500 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

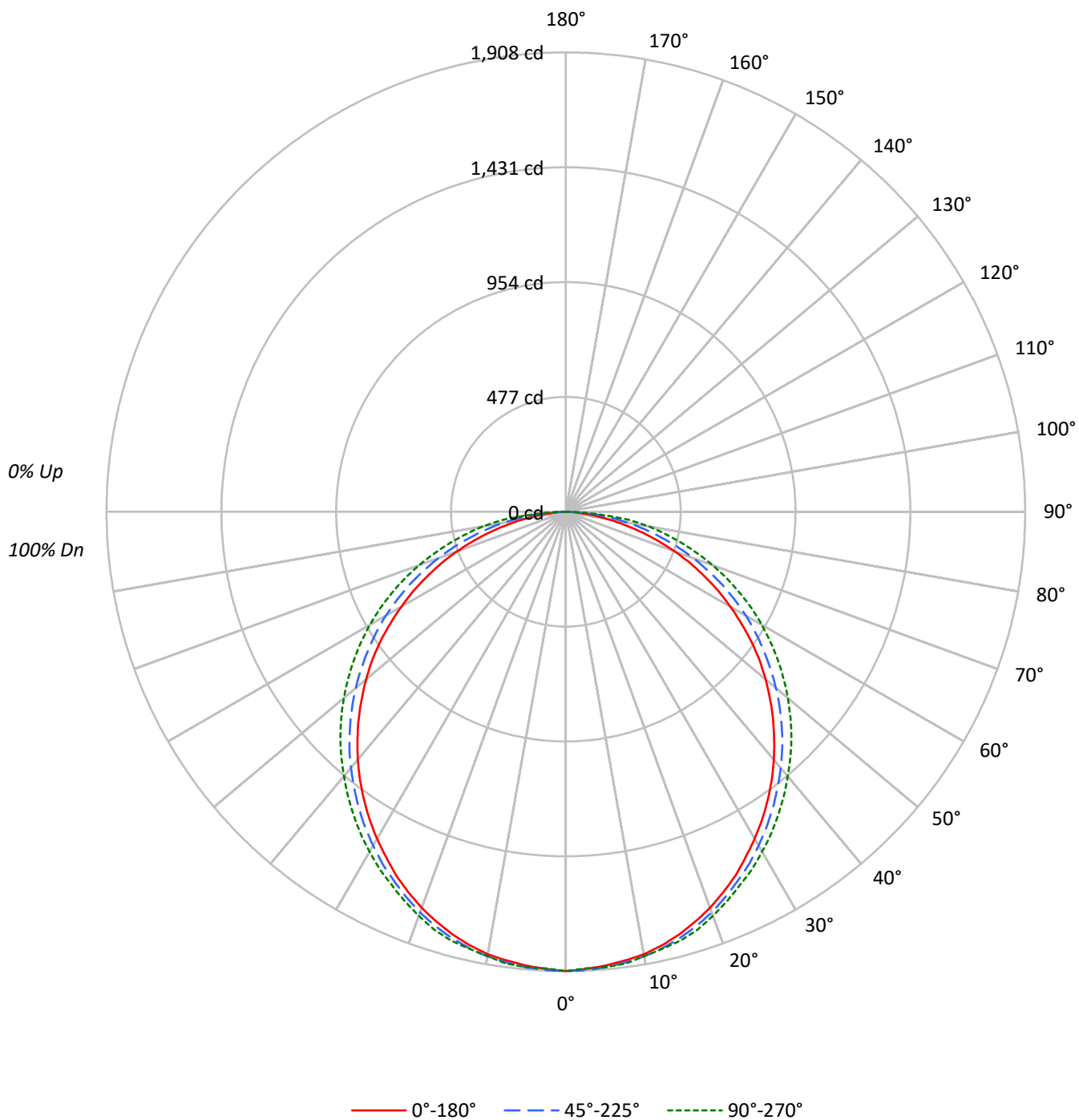
Lumens per Lamp: N/A
Luminaire Lumens: 5570.0 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	2922	2922	2922
5°	2909	2920	2918
10°	2903	2916	2914
15°	2882	2905	2923
20°	2853	2887	2911
25°	2817	2857	2892
30°	2773	2832	2883
35°	2733	2804	2875
40°	2688	2776	2867
45°	2637	2748	2870
50°	2580	2714	2869
55°	2513	2676	2872
60°	2418	2647	2879
65°	2308	2596	2888
70°	2151	2523	2901
75°	1917	2423	2929
80°	1585	2307	3072
85°	1032	2084	2685

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3169 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.4	3.2
10°-20°	516.7	9.3
20°-30°	779.2	14.0
30°-40°	938.5	16.8
40°-50°	980.2	17.6
50°-60°	900.1	16.2
60°-70°	709.0	12.7
70°-80°	435.0	7.8
80°-90°	130.9	2.4
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°	1476.3	26.5
0°-40°	2414.8	43.4
0°-60°	4295.2	77.1
0°-90°	5570.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5570.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1908	1908	1908	1908	1908	
5°	1892	1894	1899	1905	1898	180
15°	1817	1821	1832	1843	1843	513
25°	1667	1671	1690	1711	1711	767
35°	1462	1469	1500	1530	1538	914
45°	1217	1231	1269	1313	1325	939
55°	941	958	1002	1058	1076	840
65°	637	659	716	776	797	630
75°	324	350	409	474	495	343
85°	59	81	119	150	153	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1907.9	1907.9	1907.9	1907.9	1907.9
2.5°	1900.5	1904.2	1905.4	1906.7	1898.1
5°	1892.0	1894.4	1899.3	1905.4	1898.1
7.5°	1879.8	1882.2	1888.3	1896.9	1893.2
10°	1866.3	1867.5	1874.9	1881.0	1873.7
12.5°	1844.3	1848.0	1856.5	1861.4	1859.0
15°	1817.4	1821.1	1832.1	1843.1	1843.1
17.5°	1785.7	1790.5	1804.0	1818.7	1819.9
20°	1750.2	1753.9	1771.0	1785.7	1785.7
22.5°	1709.9	1714.8	1731.9	1747.8	1750.2
25°	1667.1	1670.8	1690.3	1711.1	1711.1
27.5°	1617.0	1624.3	1648.8	1669.5	1674.4
30°	1568.1	1574.2	1601.1	1626.8	1630.4
32.5°	1516.8	1524.1	1552.2	1580.3	1586.4
35°	1461.8	1469.1	1499.7	1530.2	1537.5
37.5°	1404.3	1412.9	1444.7	1480.1	1487.4
40°	1344.4	1354.2	1388.4	1426.3	1433.7
42.5°	1280.9	1294.3	1331.0	1370.1	1381.1
45°	1217.3	1230.8	1268.7	1312.7	1324.9
47.5°	1150.1	1166.0	1205.1	1251.5	1265.0
50°	1082.9	1098.8	1139.1	1189.2	1203.9
52.5°	1014.4	1030.3	1071.9	1124.4	1140.3
55°	941.1	958.2	1002.2	1058.4	1075.5
57.5°	865.3	887.3	933.8	991.2	1008.3
60°	789.5	811.5	864.1	920.3	939.9
62.5°	715.0	735.8	789.5	849.4	870.2
65°	636.8	658.8	716.2	776.1	796.9
67.5°	559.8	581.8	639.2	701.5	723.5
70°	480.3	504.8	563.4	625.8	647.8
72.5°	400.9	426.6	486.4	550.0	570.8
75°	323.9	349.6	409.4	474.2	495.0
77.5°	248.1	276.2	334.9	400.9	420.4
80°	179.7	206.6	261.6	326.3	348.3
82.5°	114.9	138.1	193.1	254.2	270.1
85°	58.7	80.7	118.6	150.3	152.8
87.5°	18.3	25.7	39.1	58.7	59.9
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	15.20	16.87	15.57	17.18	17.49	16.03	17.70	16.40	18.01	18.32
	3H	16.96	18.47	17.34	18.79	19.15	18.15	19.66	18.53	19.98	20.34
	4H	17.58	19.00	17.98	19.35	19.72	19.04	20.46	19.44	20.81	21.18
	6H	17.99	19.31	18.40	19.67	20.06	19.82	21.14	20.23	21.50	21.89
	8H	18.10	19.36	18.52	19.75	20.15	20.14	21.40	20.56	21.79	22.19
	12H	18.15	19.36	18.58	19.74	20.17	20.35	21.56	20.78	21.94	22.37
4H	2H	15.98	17.40	16.37	17.74	18.12	16.62	18.04	17.02	18.39	18.77
	3H	17.95	19.15	18.36	19.55	19.95	18.98	20.17	19.39	20.57	20.97
	4H	18.69	19.78	19.12	20.19	20.62	20.03	21.12	20.46	21.53	21.96
	6H	19.22	20.17	19.67	20.61	21.06	20.98	21.93	21.43	22.37	22.83
	8H	19.36	20.26	19.82	20.70	21.16	21.38	22.27	21.84	22.71	23.18
	12H	19.45	20.25	19.93	20.73	21.19	21.66	22.46	22.13	22.93	23.40
8H	4H	19.15	20.04	19.61	20.48	20.95	20.32	21.21	20.78	21.65	22.12
	6H	19.81	20.55	20.30	21.04	21.51	21.43	22.17	21.92	22.66	23.13
	8H	20.02	20.69	20.53	21.19	21.68	21.94	22.61	22.45	23.11	23.60
	12H	20.16	20.75	20.67	21.24	21.80	22.33	22.92	22.83	23.41	23.97
12H	4H	19.24	20.04	19.72	20.52	20.98	20.34	21.15	20.82	21.62	22.09
	6H	19.94	20.61	20.45	21.12	21.60	21.48	22.15	21.98	22.65	23.14
	8H	20.22	20.81	20.73	21.30	21.86	22.05	22.65	22.56	23.14	23.69