

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: P1588737

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588737
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-L840
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 5500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

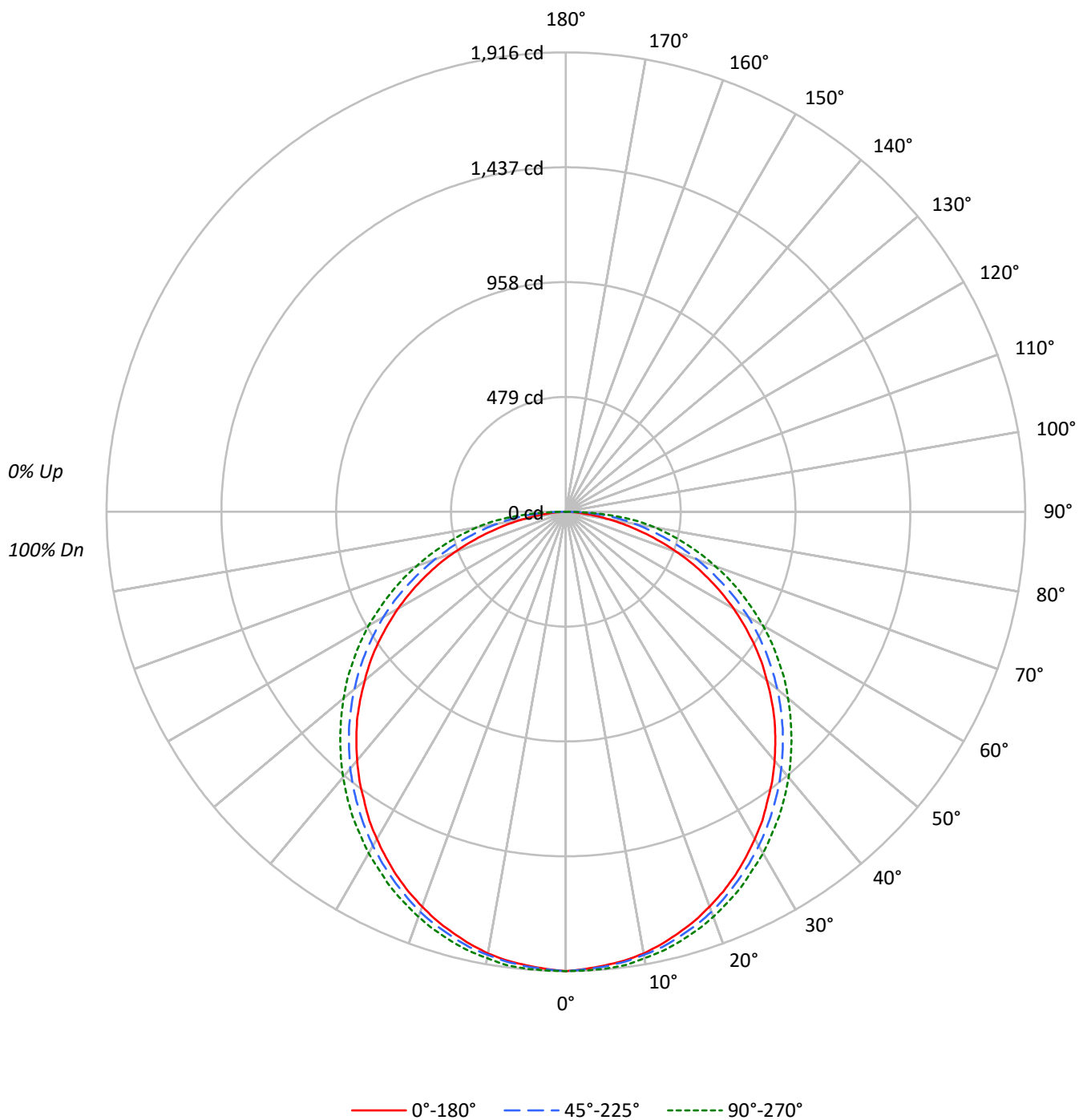
Lumens per Lamp: N/A
Luminaire Lumens: 5684.0 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	2935	2935	2935
5°	2919	2927	2941
10°	2909	2919	2941
15°	2884	2909	2939
20°	2856	2895	2931
25°	2826	2869	2922
30°	2788	2846	2910
35°	2744	2821	2900
40°	2708	2796	2891
45°	2668	2770	2883
50°	2609	2744	2883
55°	2554	2718	2890
60°	2477	2694	2911
65°	2372	2651	2930
70°	2219	2607	2966
75°	1974	2569	3063
80°	1624	2581	3331
85°	1105	2875	3676

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 3676 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.3	3.2
10°-20°	519.2	9.1
20°-30°	785.1	13.8
30°-40°	947.4	16.7
40°-50°	990.6	17.4
50°-60°	914.0	16.1
60°-70°	726.8	12.8
70°-80°	458.7	8.1
80°-90°	160.8	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°	1485.7	26.1
0°-40°	2433.1	42.8
0°-60°	4337.7	76.3
0°-90°	5684.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5684.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1916	1916	1916	1916	1916	
5°	1899	1913	1904	1908	1913	180
15°	1819	1839	1834	1848	1853	513
25°	1672	1697	1697	1720	1729	770
35°	1468	1499	1509	1538	1551	920
45°	1232	1258	1279	1317	1331	949
55°	956	985	1018	1067	1082	854
65°	654	684	732	793	809	647
75°	334	371	434	499	518	354
85°	63	104	164	203	209	80
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1916.1	1916.1	1916.1	1916.1	1916.1
2.5°	1908.2	1920.8	1909.8	1916.1	1914.5
5°	1898.8	1912.9	1903.5	1908.2	1912.9
7.5°	1887.8	1903.5	1892.5	1900.4	1906.7
10°	1870.5	1886.2	1876.8	1886.2	1890.9
12.5°	1846.9	1865.8	1859.5	1870.5	1875.2
15°	1818.6	1839.0	1834.3	1848.4	1853.2
17.5°	1788.7	1810.7	1807.5	1823.3	1828.0
20°	1752.5	1777.7	1776.1	1791.8	1798.1
22.5°	1714.7	1739.9	1738.3	1755.6	1763.5
25°	1672.3	1697.4	1697.4	1719.5	1728.9
27.5°	1625.1	1653.4	1655.0	1677.0	1684.8
30°	1576.3	1604.6	1609.3	1632.9	1645.5
32.5°	1526.0	1552.7	1560.6	1587.3	1596.7
35°	1467.7	1499.2	1508.6	1538.5	1551.1
37.5°	1414.3	1442.6	1455.2	1486.6	1499.2
40°	1354.5	1384.4	1398.5	1433.1	1445.7
42.5°	1293.1	1323.0	1338.7	1376.5	1389.1
45°	1231.8	1258.5	1279.0	1316.7	1330.9
47.5°	1164.1	1194.0	1216.0	1256.9	1271.1
50°	1094.9	1126.4	1151.5	1195.6	1209.8
52.5°	1028.8	1057.2	1085.5	1134.2	1150.0
55°	956.5	984.8	1017.8	1066.6	1082.3
57.5°	882.5	910.9	948.6	1000.5	1017.8
60°	808.6	836.9	879.4	932.9	950.2
62.5°	731.5	759.8	807.0	862.1	877.8
65°	654.4	684.3	731.5	792.9	808.6
67.5°	575.8	605.7	656.0	720.5	737.8
70°	495.5	528.6	582.1	646.6	662.3
72.5°	412.2	449.9	509.7	572.6	591.5
75°	333.5	371.3	434.2	498.7	517.6
77.5°	256.4	298.9	361.8	429.5	449.9
80°	184.1	226.5	292.6	358.7	377.6
82.5°	118.0	162.0	228.1	291.0	306.8
85°	62.9	103.8	163.6	202.9	209.2
87.5°	20.5	53.5	73.9	97.5	99.1
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	15.30	16.97	15.66	17.28	17.60	16.02	17.69	16.38	18.00	18.32
	3H	17.08	18.60	17.46	18.93	19.29	18.19	19.70	18.56	20.03	20.39
	4H	17.72	19.15	18.11	19.49	19.87	19.12	20.55	19.52	20.90	21.27
	6H	18.14	19.47	18.55	19.83	20.22	19.98	21.31	20.39	21.67	22.06
	8H	18.25	19.52	18.67	19.91	20.31	20.36	21.63	20.78	22.02	22.41
	12H	18.31	19.53	18.74	19.91	20.34	20.67	21.89	21.09	22.27	22.70
4H	2H	16.06	17.49	16.46	17.84	18.22	16.62	18.05	17.02	18.40	18.78
	3H	18.08	19.29	18.49	19.69	20.09	19.03	20.24	19.44	20.64	21.04
	4H	18.85	19.95	19.28	20.36	20.79	20.14	21.24	20.57	21.65	22.08
	6H	19.40	20.37	19.85	20.80	21.26	21.18	22.14	21.63	22.58	23.04
	8H	19.56	20.46	20.02	20.90	21.37	21.64	22.55	22.10	22.99	23.45
	12H	19.66	20.47	20.14	20.95	21.41	22.04	22.85	22.52	23.33	23.80
8H	4H	19.33	20.24	19.79	20.68	21.14	20.45	21.36	20.91	21.80	22.26
	6H	20.04	20.80	20.53	21.29	21.76	21.67	22.43	22.16	22.91	23.39
	8H	20.29	20.97	20.79	21.47	21.95	22.27	22.95	22.78	23.45	23.94
	12H	20.46	21.06	20.96	21.55	22.11	22.81	23.42	23.32	23.90	24.46
12H	4H	19.44	20.25	19.92	20.73	21.20	20.49	21.30	20.96	21.78	22.24
	6H	20.20	20.89	20.71	21.39	21.87	21.74	22.42	22.24	22.92	23.41
	8H	20.53	21.13	21.03	21.62	22.18	22.41	23.01	22.92	23.50	24.06