

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: P1588739

Luminaire Tested: 24CZSP-A-57HE-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588739
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-L845
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 5500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

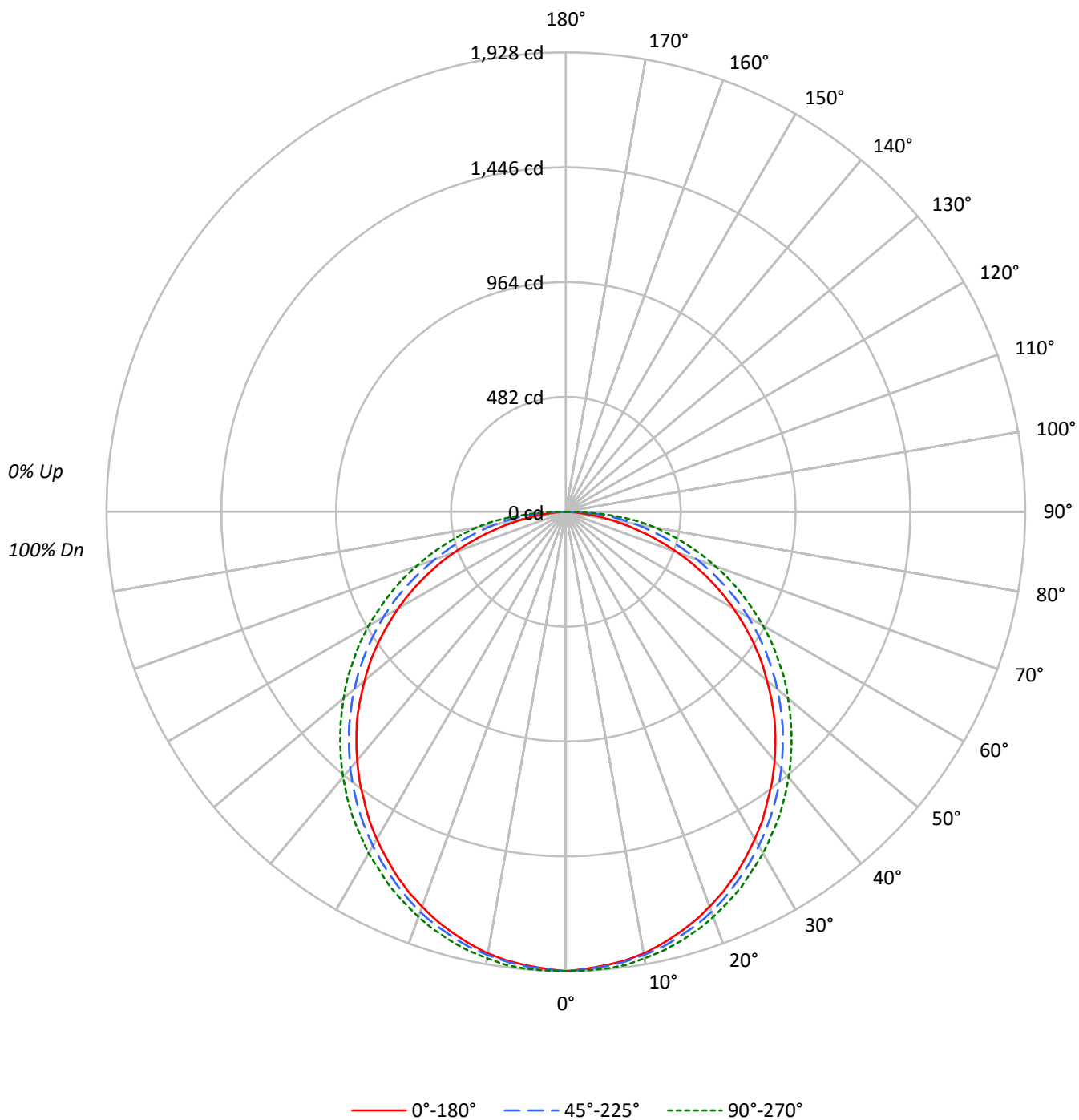
Lumens per Lamp: N/A
Luminaire Lumens: 5720.0 lumens
Efficiency: N/A
Efficacy: 145.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1588739

CATALOG NUMBER: 24CZSP-A-57HE-L845

Luminous Intensity Polar Plot



TEST NUMBER: P1588739

CATALOG NUMBER: 24CZSP-A-57HE-L845

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°	2953	2953	2953
5°	2938	2945	2960
10°	2927	2937	2959
15°	2902	2927	2957
20°	2875	2913	2949
25°	2844	2887	2940
30°	2805	2864	2929
35°	2762	2839	2919
40°	2725	2814	2909
45°	2685	2788	2901
50°	2625	2761	2901
55°	2570	2735	2908
60°	2493	2711	2929
65°	2387	2668	2949
70°	2233	2623	2985
75°	1986	2585	3082
80°	1634	2598	3351
85°	1112	2893	3701

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 3701 cd/sqm

TEST NUMBER: P1588739

CATALOG NUMBER: 24CZSP-A-57HE-L845

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.5	3.2
10°-20°	522.5	9.1
20°-30°	790.1	13.8
30°-40°	953.4	16.7
40°-50°	996.9	17.4
50°-60°	919.8	16.1
60°-70°	731.4	12.8
70°-80°	461.6	8.1
80°-90°	161.8	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°	1495.1	26.1
0°-40°	2448.5	42.8
0°-60°	4365.2	76.3
0°-90°	5720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5720.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1928	1928	1928	1928	1928	
5°	1911	1925	1916	1920	1925	182
15°	1830	1851	1846	1860	1865	516
25°	1683	1708	1708	1730	1740	775
35°	1477	1509	1518	1548	1561	926
45°	1240	1266	1287	1325	1339	955
55°	962	991	1024	1073	1089	860
65°	659	689	736	798	814	651
75°	336	374	437	502	521	356
85°	63	104	165	204	211	80
90°	0	0	0	0	0	

TEST NUMBER: P1588739

CATALOG NUMBER: 24CZSP-A-57HE-L845

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1928.2	1928.2	1928.2	1928.2	1928.2
2.5°	1920.3	1933.0	1921.9	1928.2	1926.6
5°	1910.8	1925.1	1915.6	1920.3	1925.1
7.5°	1899.7	1915.6	1904.5	1912.4	1918.7
10°	1882.3	1898.2	1888.7	1898.2	1902.9
12.5°	1858.6	1877.6	1871.2	1882.3	1887.1
15°	1830.1	1850.7	1845.9	1860.2	1864.9
17.5°	1800.0	1822.2	1819.0	1834.8	1839.6
20°	1763.6	1788.9	1787.3	1803.2	1809.5
22.5°	1725.6	1750.9	1749.3	1766.8	1774.7
25°	1682.8	1708.2	1708.2	1730.3	1739.8
27.5°	1635.4	1663.9	1665.4	1687.6	1695.5
30°	1586.3	1614.8	1619.5	1643.3	1655.9
32.5°	1535.6	1562.5	1570.4	1597.4	1606.9
35°	1477.0	1508.7	1518.2	1548.3	1560.9
37.5°	1423.2	1451.7	1464.4	1496.0	1508.7
40°	1363.1	1393.1	1407.4	1442.2	1454.9
42.5°	1301.3	1331.4	1347.2	1385.2	1397.9
45°	1239.6	1266.5	1287.1	1325.1	1339.3
47.5°	1171.5	1201.6	1223.7	1264.9	1279.2
50°	1101.8	1133.5	1158.8	1203.2	1217.4
52.5°	1035.4	1063.9	1092.3	1141.4	1157.3
55°	962.5	991.0	1024.3	1073.4	1089.2
57.5°	888.1	916.6	954.6	1006.9	1024.3
60°	813.7	842.2	885.0	938.8	956.2
62.5°	736.1	764.6	812.1	867.5	883.4
65°	658.6	688.7	736.1	797.9	813.7
67.5°	579.4	609.5	660.2	725.1	742.5
70°	498.7	531.9	585.8	650.7	666.5
72.5°	414.8	452.8	512.9	576.3	595.3
75°	335.6	373.6	436.9	501.8	520.8
77.5°	258.0	300.8	364.1	432.2	452.8
80°	185.2	228.0	294.5	360.9	379.9
82.5°	118.7	163.1	229.6	292.9	308.7
85°	63.3	104.5	164.6	204.2	210.6
87.5°	20.6	53.8	74.4	98.2	99.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588739

CATALOG NUMBER: 24CZSP-A-57HE-L845

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	15.32	16.99	15.68	17.31	17.62	16.04	17.71	16.41	18.03	18.34
	3H	17.11	18.62	17.48	18.95	19.31	18.21	19.72	18.58	20.05	20.41
	4H	17.74	19.17	18.13	19.52	19.89	19.14	20.57	19.54	20.92	21.29
	6H	18.16	19.49	18.57	19.85	20.24	20.00	21.33	20.41	21.69	22.09
	8H	18.27	19.55	18.70	19.93	20.33	20.38	21.65	20.80	22.04	22.44
	12H	18.33	19.55	18.76	19.93	20.36	20.69	21.91	21.12	22.29	22.72
4H	2H	16.08	17.52	16.48	17.86	18.24	16.64	18.08	17.04	18.42	18.80
	3H	18.11	19.32	18.51	19.71	20.11	19.06	20.27	19.47	20.66	21.06
	4H	18.87	19.97	19.30	20.38	20.81	20.16	21.26	20.59	21.67	22.10
	6H	19.42	20.39	19.87	20.83	21.28	21.20	22.16	21.65	22.60	23.06
	8H	19.58	20.49	20.04	20.93	21.39	21.66	22.57	22.12	23.01	23.47
	12H	19.68	20.49	20.16	20.97	21.44	22.06	22.88	22.54	23.35	23.82
8H	4H	19.36	20.26	19.81	20.70	21.17	20.48	21.38	20.93	21.82	22.28
	6H	20.07	20.82	20.56	21.31	21.78	21.69	22.45	22.19	22.94	23.41
	8H	20.31	20.99	20.81	21.49	21.98	22.29	22.97	22.80	23.48	23.96
	12H	20.48	21.08	20.98	21.57	22.13	22.83	23.44	23.34	23.93	24.48
12H	4H	19.46	20.28	19.94	20.75	21.22	20.51	21.32	20.99	21.80	22.27
	6H	20.23	20.91	20.73	21.41	21.90	21.76	22.44	22.26	22.94	23.43
	8H	20.55	21.15	21.05	21.64	22.20	22.43	23.04	22.94	23.53	24.08