

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: P1588814

Luminaire Tested: 24CZSP-A-65VHE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588814
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-65VHE-L835-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 7000 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

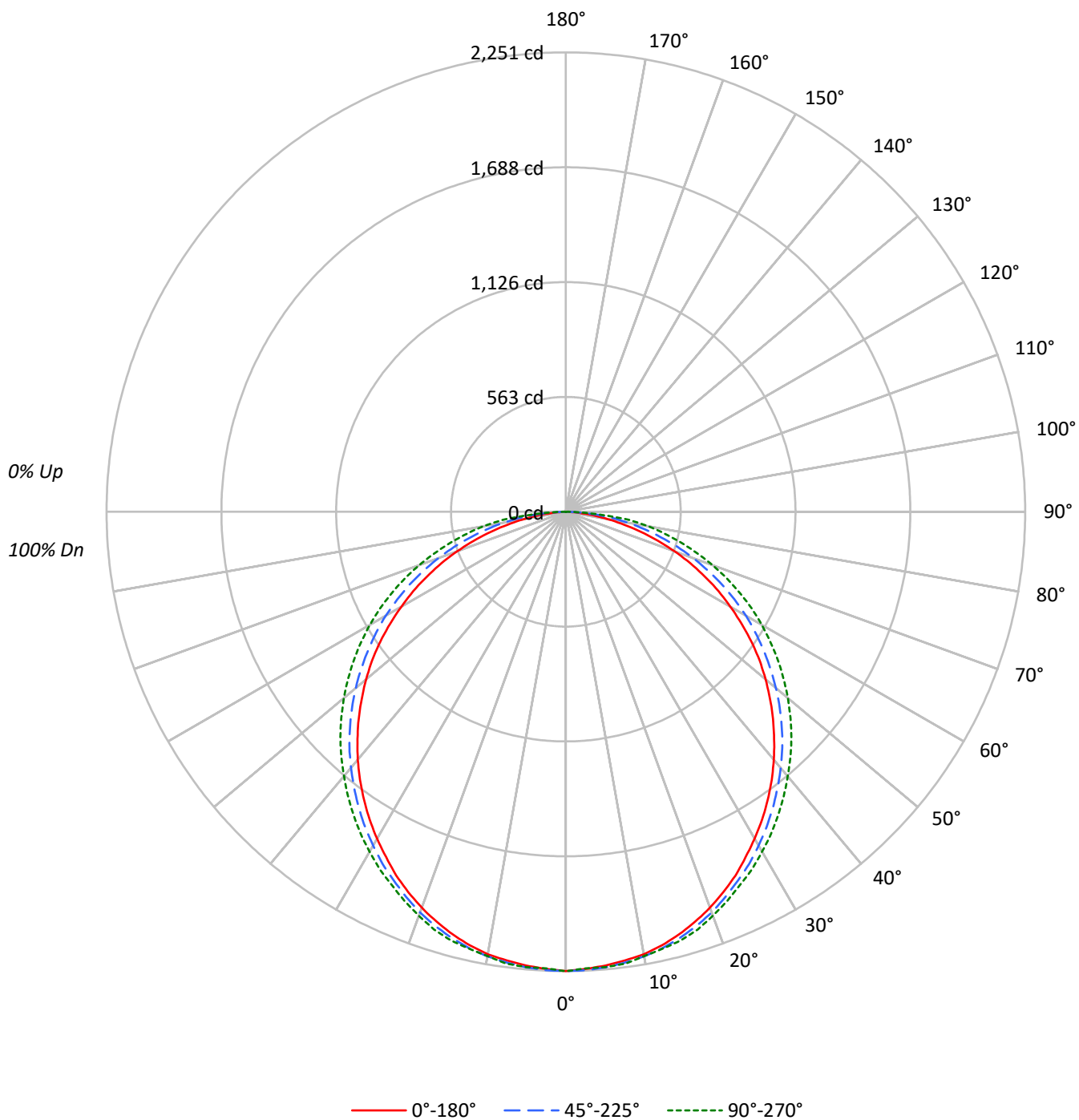
Lumens per Lamp: N/A
Luminaire Lumens: 6571.0 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 50.1
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: P1588814

CATALOG NUMBER: 24CZSP-A-65VHE-L835-S

Luminous Intensity Polar Plot



TEST NUMBER: P1588814

CATALOG NUMBER: 24CZSP-A-65VHE-L835-S

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°	3447	3447	3447
5°	3432	3445	3443
10°	3424	3440	3438
15°	3400	3427	3448
20°	3365	3405	3434
25°	3324	3370	3411
30°	3272	3340	3402
35°	3224	3308	3392
40°	3171	3275	3382
45°	3111	3242	3386
50°	3044	3202	3384
55°	2965	3157	3388
60°	2853	3123	3397
65°	2722	3062	3407
70°	2538	2977	3422
75°	2261	2858	3456
80°	1870	2722	3624
85°	1216	2459	3167

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3740 cd/sqm

TEST NUMBER: P1588814

CATALOG NUMBER: 24CZSP-A-65VHE-L835-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.9	3.2
10°-20°	609.5	9.3
20°-30°	919.2	14.0
30°-40°	1107.2	16.8
40°-50°	1156.3	17.6
50°-60°	1061.9	16.2
60°-70°	836.4	12.7
70°-80°	513.1	7.8
80°-90°	154.4	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°	1741.6	26.5
0°-40°	2848.8	43.4
0°-60°	5067.1	77.1
0°-90°	6571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2251	2251	2251	2251	2251	
5°	2232	2235	2241	2248	2239	212
15°	2144	2148	2161	2174	2174	605
25°	1967	1971	1994	2019	2019	905
35°	1724	1733	1769	1805	1814	1079
45°	1436	1452	1497	1549	1563	1107
55°	1110	1130	1182	1249	1269	991
65°	751	777	845	916	940	743
75°	382	412	483	559	584	405
85°	69	95	140	177	180	90
90°	0	0	0	0	0	

TEST NUMBER: P1588814

CATALOG NUMBER: 24CZSP-A-65VHE-L835-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2250.7	2250.7	2250.7	2250.7	2250.7
2.5°	2242.1	2246.4	2247.9	2249.3	2239.2
5°	2232.0	2234.9	2240.6	2247.9	2239.2
7.5°	2217.6	2220.5	2227.7	2237.8	2233.4
10°	2201.7	2203.2	2211.8	2219.0	2210.4
12.5°	2175.8	2180.1	2190.2	2196.0	2193.1
15°	2144.0	2148.4	2161.3	2174.3	2174.3
17.5°	2106.6	2112.3	2128.2	2145.5	2146.9
20°	2064.7	2069.1	2089.3	2106.6	2106.6
22.5°	2017.2	2022.9	2043.1	2061.9	2064.7
25°	1966.7	1971.0	1994.1	2018.6	2018.6
27.5°	1907.6	1916.2	1945.1	1969.6	1975.3
30°	1849.9	1857.1	1888.8	1919.1	1923.4
32.5°	1789.3	1798.0	1831.2	1864.3	1871.5
35°	1724.5	1733.1	1769.2	1805.2	1813.9
37.5°	1656.7	1666.8	1704.3	1746.1	1754.7
40°	1586.0	1597.6	1638.0	1682.7	1691.3
42.5°	1511.1	1526.9	1570.2	1616.3	1629.3
45°	1436.1	1452.0	1496.7	1548.6	1563.0
47.5°	1356.8	1375.5	1421.7	1476.5	1492.3
50°	1277.5	1296.2	1343.8	1402.9	1420.2
52.5°	1196.7	1215.5	1264.5	1326.5	1345.3
55°	1110.2	1130.4	1182.3	1248.7	1268.8
57.5°	1020.8	1046.8	1101.6	1169.3	1189.5
60°	931.4	957.4	1019.4	1085.7	1108.8
62.5°	843.5	868.0	931.4	1002.1	1026.6
65°	751.2	777.2	844.9	915.6	940.1
67.5°	660.4	686.3	754.1	827.6	853.6
70°	566.7	595.5	664.7	738.2	764.2
72.5°	472.9	503.2	573.9	648.8	673.3
75°	382.1	412.4	483.0	559.4	584.0
77.5°	292.7	325.9	395.1	472.9	496.0
80°	212.0	243.7	308.6	385.0	410.9
82.5°	135.5	162.9	227.8	299.9	318.7
85°	69.2	95.2	139.9	177.3	180.2
87.5°	21.6	30.3	46.1	69.2	70.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588814

CATALOG NUMBER: 24CZSP-A-65VHE-L835-S

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	15.78	17.44	16.14	17.75	18.07	16.61	18.27	16.97	18.58	18.90
	3H	17.53	19.04	17.91	19.37	19.73	18.72	20.23	19.10	20.56	20.92
	4H	18.15	19.57	18.55	19.92	20.30	19.61	21.04	20.01	21.38	21.76
	6H	18.56	19.88	18.97	20.25	20.64	20.39	21.72	20.80	22.08	22.47
	8H	18.67	19.93	19.09	20.32	20.72	20.71	21.98	21.14	22.37	22.76
	12H	18.72	19.93	19.15	20.31	20.74	20.93	22.14	21.35	22.52	22.95
4H	2H	16.55	17.97	16.95	18.32	18.69	17.20	18.62	17.59	18.97	19.34
	3H	18.53	19.72	18.94	20.12	20.52	19.55	20.75	19.96	21.15	21.54
	4H	19.26	20.35	19.69	20.76	21.20	20.60	21.69	21.03	22.10	22.54
	6H	19.79	20.74	20.25	21.18	21.64	21.56	22.51	22.01	22.95	23.40
	8H	19.94	20.83	20.40	21.27	21.74	21.95	22.84	22.41	23.29	23.75
	12H	20.02	20.83	20.50	21.30	21.77	22.23	23.03	22.71	23.51	23.98
8H	4H	19.72	20.61	20.18	21.06	21.52	20.89	21.78	21.35	22.23	22.69
	6H	20.38	21.13	20.88	21.61	22.09	22.00	22.75	22.50	23.23	23.71
	8H	20.59	21.26	21.10	21.77	22.25	22.52	23.18	23.02	23.69	24.17
	12H	20.73	21.33	21.24	21.82	22.37	22.90	23.49	23.41	23.98	24.54
12H	4H	19.81	20.62	20.29	21.09	21.56	20.92	21.72	21.40	22.19	22.66
	6H	20.52	21.19	21.02	21.69	22.18	22.05	22.72	22.56	23.23	23.71
	8H	20.79	21.39	21.30	21.88	22.43	22.63	23.22	23.13	23.71	24.27