

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: P1588859

Luminaire Tested: 24CZSP-A-75-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2604-747-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-75-L845
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 7500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

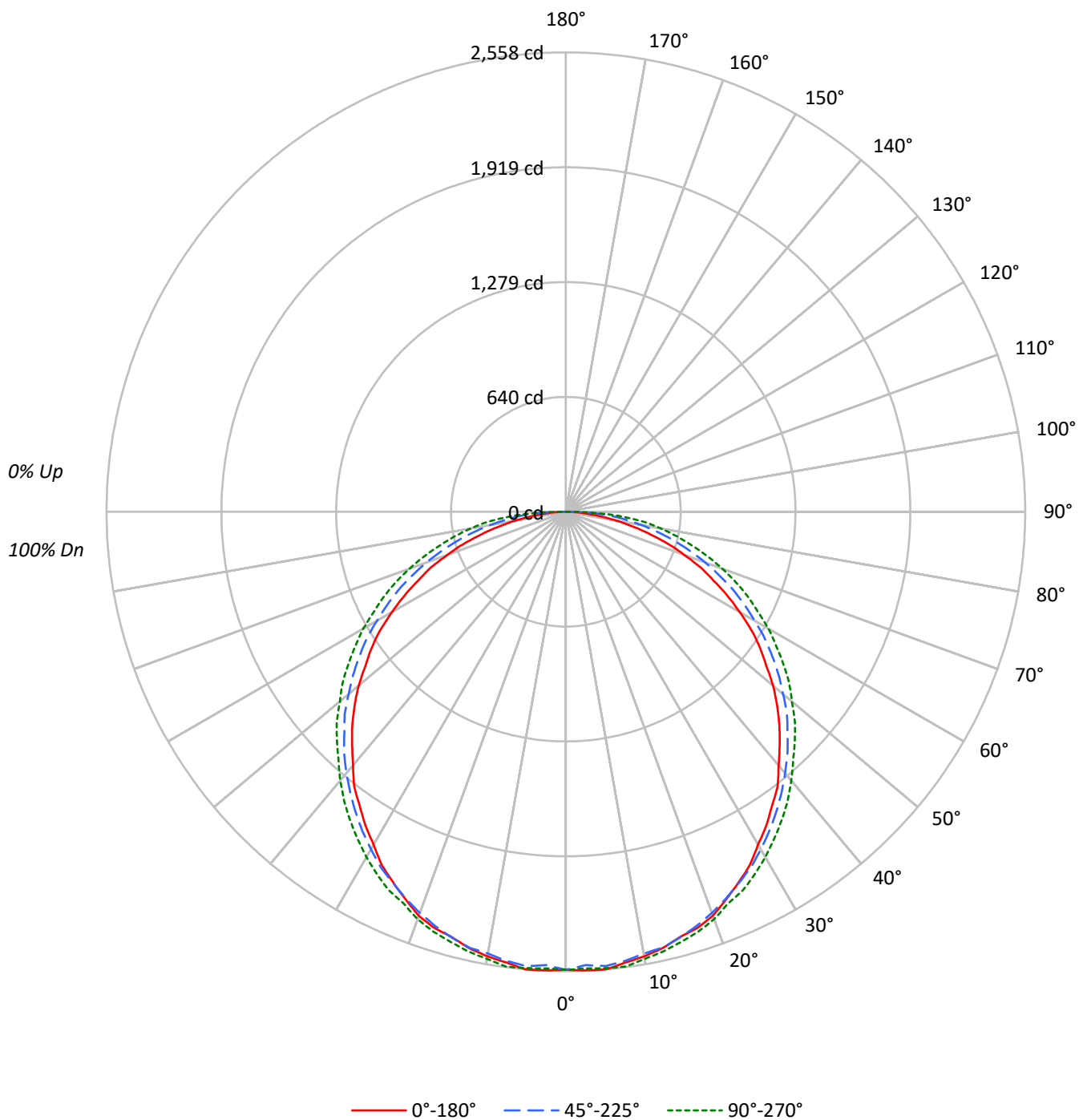
Lumens per Lamp: N/A
Luminaire Lumens: 7785.0 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 59.5
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: P1588859

CATALOG NUMBER: 24CZSP-A-75-L845

Luminous Intensity Polar Plot



TEST NUMBER: P1588859

CATALOG NUMBER: 24CZSP-A-75-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	100	96	92	96	93	89		92	89	87		89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	51		62	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3906	3906	3906
5°	3933	3904	3921
10°	3909	3885	3932
15°	3888	3894	3932
20°	3902	3875	3935
25°	3847	3853	3935
30°	3785	3838	3927
35°	3740	3817	3918
40°	3687	3799	3907
45°	3643	3780	3905
50°	3590	3763	3914
55°	3525	3749	3948
60°	3427	3724	3992
65°	3291	3723	4054
70°	3139	3699	4149
75°	2891	3707	4303
80°	2532	3782	4736
85°	1933	4358	5667

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 6285 cd/sqm

TEST NUMBER: P1588859

CATALOG NUMBER: 24CZSP-A-75-L845

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.2	3.1
10°-20°	696.1	8.9
20°-30°	1057.5	13.6
30°-40°	1281.0	16.5
40°-50°	1347.7	17.3
50°-60°	1253.0	16.1
60°-70°	1008.9	13.0
70°-80°	653.6	8.4
80°-90°	245.1	3.1
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°	1995.8	25.6
0°-40°	3276.7	42.1
0°-60°	5877.4	75.5
0°-90°	7785.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7785.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2550	2550	2550	2550	2550	
5°	2558	2554	2539	2554	2550	242
15°	2452	2461	2456	2485	2480	695
25°	2276	2275	2280	2319	2329	1049
35°	2000	2016	2042	2077	2096	1253
45°	1682	1704	1745	1782	1803	1297
55°	1320	1354	1404	1460	1478	1177
65°	908	949	1027	1089	1119	903
75°	488	537	626	699	727	519
85°	110	162	248	310	322	135
90°	0	0	0	0	0	

TEST NUMBER: P1588859

CATALOG NUMBER: 24CZSP-A-75-L845

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2550.5	2550.5	2550.5	2550.5	2550.5
2.5°	2556.1	2556.1	2526.3	2558.0	2544.9
5°	2558.0	2554.3	2539.4	2554.3	2550.5
7.5°	2531.9	2535.6	2522.6	2541.2	2554.3
10°	2513.3	2517.0	2498.3	2528.2	2528.2
12.5°	2489.0	2492.7	2485.3	2513.3	2507.7
15°	2451.7	2461.0	2455.5	2485.3	2479.7
17.5°	2431.2	2423.8	2418.2	2440.5	2451.7
20°	2393.9	2377.2	2377.2	2407.0	2414.4
22.5°	2334.3	2328.7	2330.5	2367.8	2360.4
25°	2276.5	2274.6	2280.2	2319.4	2328.7
27.5°	2218.7	2214.9	2231.7	2269.0	2276.5
30°	2140.4	2147.8	2170.2	2211.2	2220.5
32.5°	2075.1	2088.2	2108.7	2147.8	2159.0
35°	2000.5	2015.5	2041.6	2077.0	2095.6
37.5°	1935.3	1944.6	1972.6	2006.1	2028.5
40°	1843.9	1868.2	1899.9	1948.3	1953.9
42.5°	1761.9	1786.1	1827.1	1879.3	1873.8
45°	1681.7	1704.1	1745.1	1782.4	1802.9
47.5°	1596.0	1616.5	1670.5	1715.3	1730.2
50°	1506.5	1532.6	1579.2	1625.8	1642.6
52.5°	1405.8	1433.7	1493.4	1543.7	1568.0
55°	1320.0	1353.6	1403.9	1459.8	1478.5
57.5°	1224.9	1252.9	1314.4	1370.4	1389.0
60°	1118.7	1152.2	1215.6	1275.3	1303.2
62.5°	1016.1	1053.4	1120.5	1182.0	1204.4
65°	908.0	949.0	1027.3	1088.8	1118.7
67.5°	814.8	848.3	924.8	993.7	1025.4
70°	701.0	745.8	825.9	902.4	926.6
72.5°	600.3	639.5	723.4	799.8	829.7
75°	488.5	537.0	626.4	699.2	727.1
77.5°	385.9	436.3	525.8	602.2	633.9
80°	287.1	335.6	428.8	507.1	537.0
82.5°	193.9	242.4	335.6	412.0	445.6
85°	110.0	162.2	248.0	309.5	322.5
87.5°	48.5	93.2	139.8	167.8	179.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588859

CATALOG NUMBER: 24CZSP-A-75-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	16.42	18.10	16.78	18.41	18.73	17.09	18.77	17.46	19.09	19.40
	3H	18.27	19.80	18.65	20.13	20.49	19.31	20.84	19.69	21.17	21.52
	4H	18.96	20.40	19.36	20.75	21.12	20.27	21.72	20.67	22.07	22.44
	6H	19.45	20.79	19.86	21.16	21.55	21.17	22.51	21.58	22.87	23.26
	8H	19.60	20.88	20.02	21.27	21.67	21.57	22.85	21.99	23.24	23.64
	12H	19.69	20.92	20.12	21.30	21.73	21.93	23.16	22.36	23.54	23.97
4H	2H	17.21	18.66	17.61	19.00	19.38	17.73	19.18	18.13	19.52	19.90
	3H	19.30	20.52	19.71	20.92	21.32	20.19	21.41	20.60	21.81	22.21
	4H	20.12	21.23	20.55	21.64	22.08	21.32	22.43	21.75	22.84	23.28
	6H	20.74	21.72	21.20	22.16	22.61	22.39	23.37	22.84	23.81	24.26
	8H	20.94	21.86	21.40	22.30	22.76	22.88	23.80	23.34	24.24	24.70
	12H	21.08	21.90	21.55	22.38	22.84	23.33	24.16	23.81	24.63	25.10
8H	4H	20.63	21.54	21.09	21.98	22.45	21.66	22.58	22.12	23.02	23.48
	6H	21.41	22.18	21.90	22.67	23.14	22.91	23.68	23.40	24.17	24.64
	8H	21.70	22.39	22.20	22.89	23.37	23.54	24.23	24.04	24.73	25.21
	12H	21.91	22.53	22.42	23.02	23.57	24.15	24.76	24.65	25.25	25.81
12H	4H	20.74	21.56	21.21	22.04	22.50	21.70	22.53	22.18	23.00	23.47
	6H	21.58	22.27	22.09	22.77	23.26	22.99	23.68	23.49	24.18	24.67
	8H	21.95	22.56	22.45	23.05	23.61	23.69	24.30	24.20	24.79	25.35