

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: P1584439

Luminaire Tested: 14CZSP-65-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2603-724-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-65-L845
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 6200 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

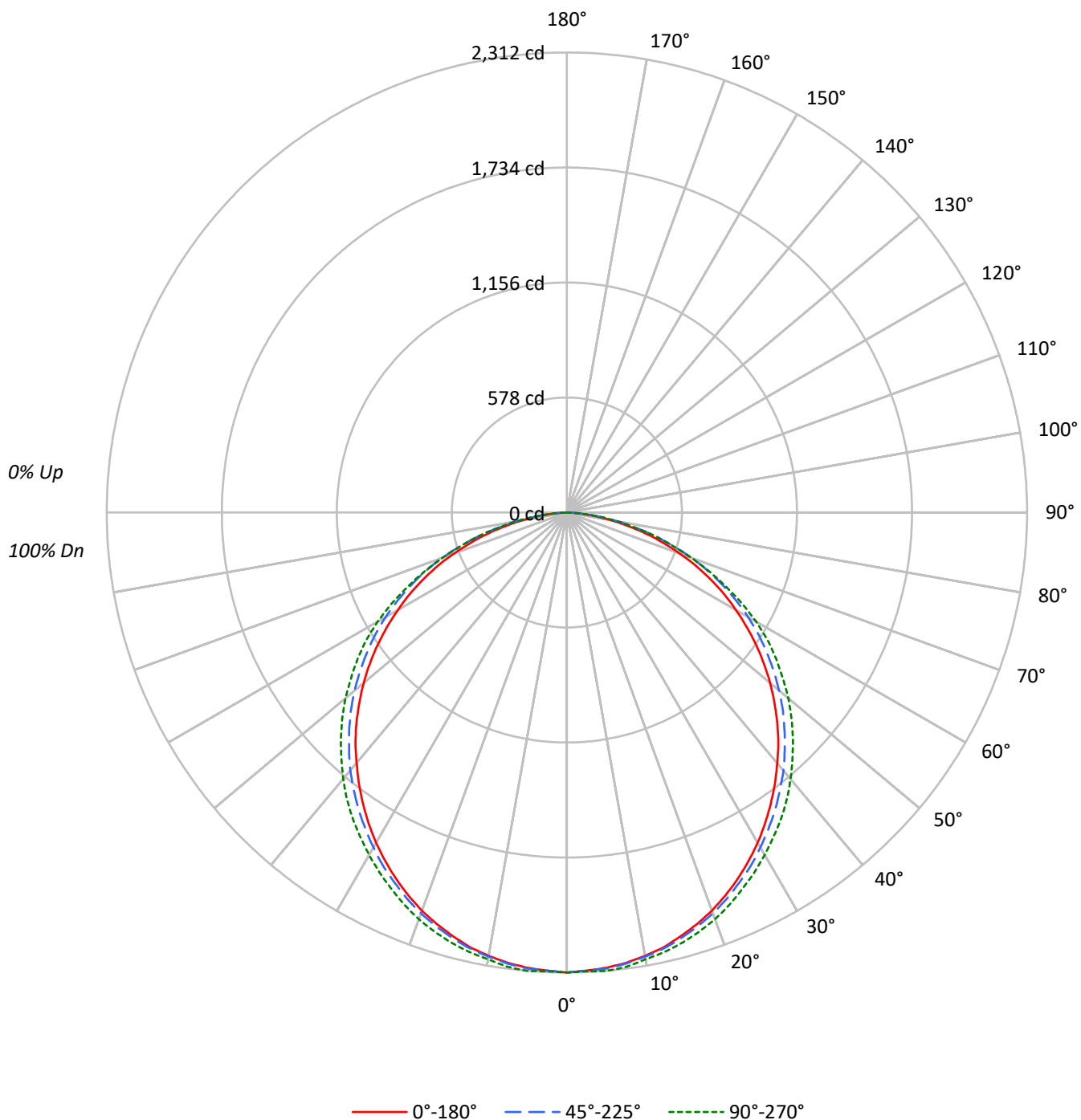
Lumens per Lamp: N/A
Luminaire Lumens: 6671.0 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 48.8
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: P1584439

CATALOG NUMBER: 14CZSP-65-L845

Luminous Intensity Polar Plot



TEST NUMBER: P1584439

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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	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	53		62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7790	7790	7790
5°	7766	7780	7820
10°	7741	7755	7802
15°	7693	7727	7810
20°	7638	7687	7801
25°	7551	7625	7757
30°	7456	7564	7733
35°	7346	7501	7721
40°	7229	7447	7690
45°	7125	7370	7653
50°	6988	7299	7609
55°	6820	7204	7540
60°	6610	7090	7397
65°	6355	6891	7033
70°	5962	6547	6547
75°	5356	5948	5973
80°	4413	5028	5028
85°	3058	3669	3213

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7653 cd/sqm

TEST NUMBER: P1584439

CATALOG NUMBER: 14CZSP-65-L845

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.0	3.3
10°-20°	627.2	9.4
20°-30°	949.2	14.2
30°-40°	1146.0	17.2
40°-50°	1197.3	17.9
50°-60°	1096.8	16.4
60°-70°	845.6	12.7
70°-80°	477.1	7.2
80°-90°	112.9	1.7
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°	1795.4	26.9
0°-40°	2941.4	44.1
0°-60°	5235.4	78.5
0°-90°	6671.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6671.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2312	2312	2312	2312	2312	
5°	2296	2312	2300	2304	2312	218
15°	2205	2219	2215	2233	2239	622
25°	2031	2049	2051	2079	2086	936
35°	1786	1810	1824	1863	1877	1117
45°	1495	1521	1547	1592	1606	1153
55°	1161	1191	1226	1272	1284	1037
65°	797	823	864	894	882	788
75°	411	443	457	469	459	436
85°	79	89	95	101	83	100
90°	0	0	0	0	0	

TEST NUMBER: P1584439

CATALOG NUMBER: 14CZSP-65-L845

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2312.0	2312.0	2312.0	2312.0	2312.0
2.5°	2304.0	2319.9	2304.0	2312.0	2308.0
5°	2296.1	2312.0	2300.1	2304.0	2312.0
7.5°	2282.3	2298.1	2286.2	2292.2	2302.1
10°	2262.5	2278.3	2266.5	2276.4	2280.3
12.5°	2238.8	2252.6	2244.7	2256.6	2262.5
15°	2205.2	2219.0	2215.0	2232.8	2238.8
17.5°	2169.6	2185.4	2181.4	2203.2	2209.1
20°	2130.0	2143.8	2143.8	2163.6	2175.5
22.5°	2082.5	2098.4	2100.3	2122.1	2134.0
25°	2031.1	2048.9	2050.9	2078.6	2086.5
27.5°	1975.7	1993.5	2001.5	2031.1	2039.0
30°	1916.4	1934.2	1944.1	1977.7	1987.6
32.5°	1853.1	1874.9	1884.8	1922.3	1932.2
35°	1785.9	1809.6	1823.5	1863.0	1876.9
37.5°	1716.7	1740.4	1758.2	1799.7	1815.5
40°	1643.5	1669.2	1692.9	1734.5	1748.3
42.5°	1572.3	1598.0	1619.8	1663.3	1677.1
45°	1495.2	1520.9	1546.6	1592.1	1605.9
47.5°	1414.1	1441.8	1471.4	1513.0	1530.8
50°	1333.0	1360.7	1392.3	1435.8	1451.6
52.5°	1247.9	1277.6	1309.3	1354.7	1366.6
55°	1160.9	1190.6	1226.2	1271.7	1283.5
57.5°	1071.9	1103.6	1141.1	1184.7	1196.5
60°	980.9	1012.6	1052.1	1093.7	1097.6
62.5°	892.0	919.6	959.2	998.7	992.8
65°	797.0	822.7	864.3	893.9	882.1
67.5°	702.1	729.8	767.4	789.1	773.3
70°	605.2	634.8	664.5	680.3	664.5
72.5°	508.3	539.9	561.7	571.6	557.7
75°	411.4	443.0	456.9	468.7	458.8
77.5°	318.4	348.1	354.0	367.9	354.0
80°	227.4	255.1	259.1	272.9	259.1
82.5°	146.4	164.2	172.1	183.9	170.1
85°	79.1	89.0	94.9	100.9	83.1
87.5°	27.7	31.6	27.7	23.7	9.9
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584439

CATALOG NUMBER: 14CZSP-65-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	18.84	20.49	19.21	20.81	21.12	19.39	21.04	19.75	21.35	21.67
	3H	20.63	22.13	21.01	22.45	22.81	21.20	22.69	21.57	23.01	23.37
	4H	21.27	22.68	21.67	23.03	23.40	21.84	23.25	22.24	23.60	23.97
	6H	21.70	23.00	22.11	23.36	23.76	22.28	23.59	22.69	23.95	24.34
	8H	21.80	23.05	22.23	23.44	23.84	22.40	23.65	22.83	24.04	24.44
	12H	21.86	23.05	22.29	23.43	23.86	22.46	23.66	22.89	24.04	24.47
4H	2H	19.57	20.98	19.97	21.33	21.70	20.00	21.40	20.39	21.75	22.13
	3H	21.58	22.76	21.99	23.16	23.56	22.03	23.21	22.44	23.61	24.01
	4H	22.35	23.41	22.78	23.83	24.26	22.81	23.88	23.24	24.29	24.73
	6H	22.89	23.82	23.34	24.26	24.72	23.38	24.31	23.83	24.75	25.21
	8H	23.04	23.91	23.50	24.35	24.82	23.55	24.42	24.01	24.86	25.33
	12H	23.12	23.91	23.60	24.38	24.85	23.64	24.42	24.12	24.90	25.37
8H	4H	22.69	23.56	23.15	24.00	24.47	23.10	23.97	23.56	24.42	24.88
	6H	23.35	24.07	23.84	24.56	25.04	23.78	24.51	24.28	25.00	25.47
	8H	23.55	24.20	24.06	24.71	25.20	24.02	24.67	24.52	25.17	25.66
	12H	23.69	24.27	24.20	24.76	25.32	24.17	24.74	24.67	25.23	25.79
12H	4H	22.73	23.51	23.21	23.99	24.45	23.13	23.91	23.61	24.39	24.86
	6H	23.40	24.06	23.91	24.56	25.05	23.82	24.48	24.33	24.98	25.47
	8H	23.66	24.24	24.17	24.73	25.29	24.11	24.68	24.61	25.17	25.73