

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: P1584449

Luminaire Tested: 14CZSP-65-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584449
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-L945
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 6200 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

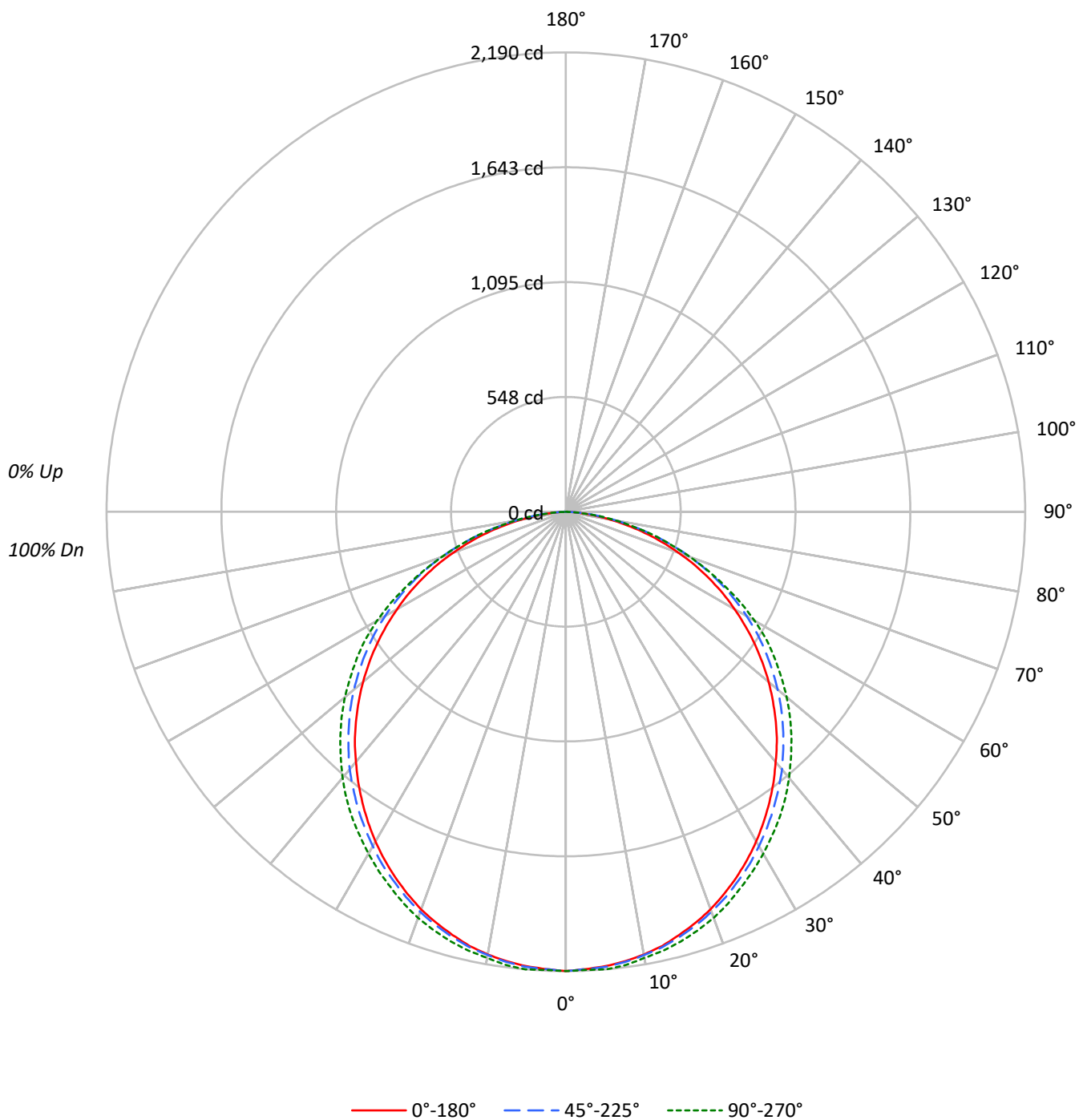
Lumens per Lamp: N/A
Luminaire Lumens: 6318.0 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1584449

CATALOG NUMBER: 14CZSP-65-L945

Luminous Intensity Polar Plot



TEST NUMBER: P1584449

CATALOG NUMBER: 14CZSP-65-L945

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°	7378	7378	7378
5°	7355	7368	7406
10°	7332	7344	7389
15°	7286	7318	7397
20°	7234	7281	7388
25°	7152	7222	7347
30°	7062	7164	7324
35°	6958	7104	7312
40°	6847	7052	7283
45°	6748	6980	7248
50°	6618	6912	7207
55°	6459	6822	7141
60°	6261	6716	7006
65°	6018	6526	6661
70°	5647	6201	6201
75°	5072	5633	5658
80°	4180	4762	4762
85°	2896	3476	3043

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7248 cd/sqm

TEST NUMBER: P1584449

CATALOG NUMBER: 14CZSP-65-L945

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.4	3.3
10°-20°	594.0	9.4
20°-30°	899.0	14.2
30°-40°	1085.3	17.2
40°-50°	1133.9	17.9
50°-60°	1038.7	16.4
60°-70°	800.9	12.7
70°-80°	451.8	7.2
80°-90°	107.0	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°	1700.4	26.9
0°-40°	2785.8	44.1
0°-60°	4958.4	78.5
0°-90°	6318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6318.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2190	2190	2190	2190	2190	
5°	2175	2190	2178	2182	2190	207
15°	2088	2102	2098	2115	2120	589
25°	1924	1940	1942	1969	1976	886
35°	1691	1714	1727	1764	1778	1058
45°	1416	1440	1465	1508	1521	1092
55°	1100	1128	1161	1204	1216	982
65°	755	779	818	847	835	746
75°	390	420	433	444	435	413
85°	75	84	90	96	79	94
90°	0	0	0	0	0	

TEST NUMBER: P1584449

CATALOG NUMBER: 14CZSP-65-L945

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2189.6	2189.6	2189.6	2189.6	2189.6
2.5°	2182.1	2197.1	2182.1	2189.6	2185.9
5°	2174.6	2189.6	2178.4	2182.1	2189.6
7.5°	2161.5	2176.5	2165.3	2170.9	2180.2
10°	2142.8	2157.8	2146.5	2155.9	2159.6
12.5°	2120.3	2133.4	2125.9	2137.2	2142.8
15°	2088.5	2101.6	2097.8	2114.7	2120.3
17.5°	2054.8	2069.7	2066.0	2086.6	2092.2
20°	2017.3	2030.4	2030.4	2049.1	2060.4
22.5°	1972.3	1987.3	1989.2	2009.8	2021.0
25°	1923.6	1940.5	1942.4	1968.6	1976.1
27.5°	1871.2	1888.1	1895.5	1923.6	1931.1
30°	1815.0	1831.9	1841.2	1873.1	1882.4
32.5°	1755.1	1775.7	1785.0	1820.6	1830.0
35°	1691.4	1713.9	1727.0	1764.4	1777.5
37.5°	1625.8	1648.3	1665.2	1704.5	1719.5
40°	1556.5	1580.9	1603.3	1642.7	1655.8
42.5°	1489.1	1513.4	1534.0	1575.2	1588.4
45°	1416.0	1440.4	1464.7	1507.8	1520.9
47.5°	1339.2	1365.5	1393.6	1432.9	1449.8
50°	1262.4	1288.7	1318.6	1359.8	1374.8
52.5°	1181.9	1210.0	1240.0	1283.1	1294.3
55°	1099.5	1127.6	1161.3	1204.4	1215.6
57.5°	1015.2	1045.2	1080.8	1122.0	1133.2
60°	929.0	959.0	996.5	1035.8	1039.6
62.5°	844.8	871.0	908.4	945.9	940.3
65°	754.8	779.2	818.5	846.6	835.4
67.5°	664.9	691.2	726.7	747.4	732.4
70°	573.2	601.3	629.4	644.3	629.4
72.5°	481.4	511.3	532.0	541.3	528.2
75°	389.6	419.6	432.7	443.9	434.6
77.5°	301.6	329.7	335.3	348.4	335.3
80°	215.4	241.6	245.4	258.5	245.4
82.5°	138.6	155.5	163.0	174.2	161.1
85°	74.9	84.3	89.9	95.5	78.7
87.5°	26.2	30.0	26.2	22.5	9.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584449

CATALOG NUMBER: 14CZSP-65-L945

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	18.66	20.31	19.02	20.62	20.93	19.20	20.85	19.56	21.16	21.48
	3H	20.44	21.94	20.82	22.26	22.62	21.01	22.50	21.38	22.83	23.19
	4H	21.08	22.49	21.48	22.84	23.21	21.65	23.06	22.05	23.41	23.78
	6H	21.51	22.81	21.92	23.18	23.57	22.09	23.40	22.50	23.76	24.15
	8H	21.62	22.86	22.04	23.25	23.65	22.21	23.46	22.64	23.85	24.25
	12H	21.67	22.86	22.10	23.25	23.67	22.27	23.47	22.70	23.85	24.28
4H	2H	19.38	20.79	19.78	21.14	21.51	19.81	21.21	20.21	21.56	21.94
	3H	21.39	22.57	21.80	22.97	23.37	21.84	23.02	22.25	23.42	23.82
	4H	22.16	23.23	22.59	23.64	24.07	22.62	23.69	23.06	24.10	24.54
	6H	22.70	23.64	23.16	24.08	24.53	23.19	24.13	23.65	24.57	25.02
	8H	22.85	23.72	23.31	24.16	24.63	23.36	24.23	23.82	24.67	25.14
	12H	22.93	23.72	23.41	24.19	24.66	23.45	24.23	23.93	24.71	25.18
8H	4H	22.50	23.37	22.96	23.82	24.28	22.91	23.79	23.37	24.23	24.69
	6H	23.16	23.89	23.65	24.37	24.85	23.59	24.32	24.09	24.81	25.28
	8H	23.37	24.02	23.87	24.52	25.01	23.83	24.48	24.34	24.98	25.47
	12H	23.50	24.08	24.01	24.57	25.13	23.98	24.55	24.48	25.04	25.60
12H	4H	22.54	23.32	23.02	23.80	24.27	22.94	23.72	23.42	24.20	24.67
	6H	23.21	23.87	23.72	24.37	24.86	23.64	24.29	24.14	24.79	25.28
	8H	23.47	24.05	23.98	24.54	25.10	23.92	24.49	24.43	24.98	25.54