

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: P1584437

Luminaire Tested: 14CZSP-65-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584437
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-L840
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 6200 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

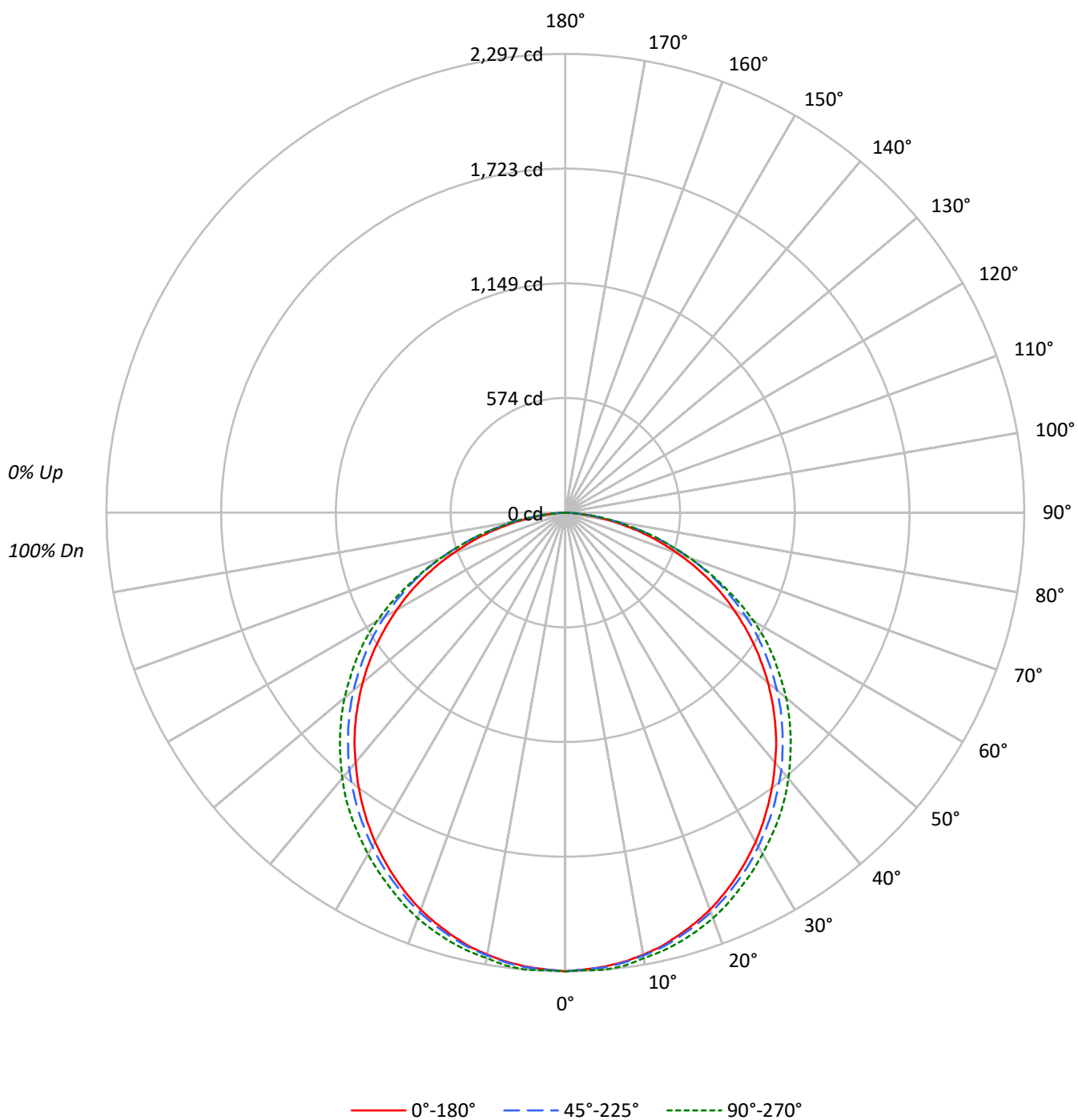
Lumens per Lamp: N/A
Luminaire Lumens: 6628.0 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1584437

CATALOG NUMBER: 14CZSP-65-L840

Luminous Intensity Polar Plot



TEST NUMBER: P1584437

CATALOG NUMBER: 14CZSP-65-L840

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°	7740	7740	7740
5°	7716	7730	7770
10°	7691	7705	7752
15°	7643	7677	7759
20°	7589	7638	7751
25°	7503	7576	7707
30°	7409	7516	7684
35°	7299	7452	7671
40°	7183	7399	7640
45°	7079	7322	7604
50°	6943	7251	7561
55°	6776	7157	7492
60°	6568	7045	7350
65°	6314	6847	6988
70°	5924	6504	6504
75°	5321	5909	5935
80°	4385	4995	4995
85°	3039	3646	3190

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7604 cd/sqm

TEST NUMBER: P1584437

CATALOG NUMBER: 14CZSP-65-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.6	3.3
10°-20°	623.2	9.4
20°-30°	943.1	14.2
30°-40°	1138.6	17.2
40°-50°	1189.5	17.9
50°-60°	1089.7	16.4
60°-70°	840.1	12.7
70°-80°	474.0	7.2
80°-90°	112.2	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°	1783.9	26.9
0°-40°	2922.4	44.1
0°-60°	5201.7	78.5
0°-90°	6628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6628.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2297	2297	2297	2297	2297	
5°	2281	2297	2285	2289	2297	217
15°	2191	2205	2201	2218	2224	618
25°	2018	2036	2038	2065	2073	930
35°	1774	1798	1812	1851	1865	1110
45°	1486	1511	1537	1582	1596	1145
55°	1153	1183	1218	1264	1275	1030
65°	792	817	859	888	876	783
75°	409	440	454	466	456	433
85°	79	88	94	100	82	99
90°	0	0	0	0	0	

TEST NUMBER: P1584437

CATALOG NUMBER: 14CZSP-65-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2297.1	2297.1	2297.1	2297.1	2297.1
2.5°	2289.2	2304.9	2289.2	2297.1	2293.1
5°	2281.3	2297.1	2285.3	2289.2	2297.1
7.5°	2267.6	2283.3	2271.5	2277.4	2287.2
10°	2247.9	2263.6	2251.9	2261.7	2265.6
12.5°	2224.3	2238.1	2230.2	2242.0	2247.9
15°	2190.9	2204.7	2200.8	2218.5	2224.3
17.5°	2155.6	2171.3	2167.4	2189.0	2194.9
20°	2116.3	2130.0	2130.0	2149.7	2161.5
22.5°	2069.1	2084.8	2086.8	2108.4	2120.2
25°	2018.0	2035.7	2037.7	2065.2	2073.0
27.5°	1963.0	1980.7	1988.6	2018.0	2025.9
30°	1904.1	1921.7	1931.6	1965.0	1974.8
32.5°	1841.2	1862.8	1872.6	1910.0	1919.8
35°	1774.4	1797.9	1811.7	1851.0	1864.8
37.5°	1705.6	1729.2	1746.9	1788.1	1803.8
40°	1632.9	1658.4	1682.0	1723.3	1737.0
42.5°	1562.2	1587.7	1609.3	1652.5	1666.3
45°	1485.5	1511.1	1536.6	1581.8	1595.6
47.5°	1405.0	1432.5	1461.9	1503.2	1520.9
50°	1324.4	1351.9	1383.3	1426.6	1442.3
52.5°	1239.9	1269.4	1300.8	1346.0	1357.8
55°	1153.4	1182.9	1218.3	1263.5	1275.3
57.5°	1065.0	1096.5	1133.8	1177.0	1188.8
60°	974.6	1006.1	1045.4	1086.6	1090.6
62.5°	886.2	913.7	953.0	992.3	986.4
65°	791.9	817.4	858.7	888.2	876.4
67.5°	697.6	725.1	762.4	784.0	768.3
70°	601.3	630.8	660.2	676.0	660.2
72.5°	505.0	536.4	558.1	567.9	554.1
75°	408.7	440.2	453.9	465.7	455.9
77.5°	316.4	345.8	351.7	365.5	351.7
80°	226.0	253.5	257.4	271.2	257.4
82.5°	145.4	163.1	171.0	182.7	169.0
85°	78.6	88.4	94.3	100.2	82.5
87.5°	27.5	31.4	27.5	23.6	9.8
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584437
CATALOG NUMBER: 14CZSP-65-L840

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	18.82	20.47	19.19	20.79	21.10	19.37	21.02	19.73	21.33	21.64
	3H	20.61	22.10	20.99	22.43	22.79	21.17	22.67	21.55	22.99	23.35
	4H	21.25	22.66	21.65	23.00	23.38	21.82	23.23	22.22	23.57	23.95
	6H	21.67	22.98	22.08	23.34	23.73	22.26	23.56	22.67	23.93	24.32
	8H	21.78	23.03	22.21	23.42	23.82	22.38	23.63	22.80	24.02	24.41
	12H	21.84	23.03	22.27	23.41	23.84	22.44	23.63	22.87	24.01	24.44
4H	2H	19.55	20.96	19.95	21.30	21.68	19.97	21.38	20.37	21.73	22.10
	3H	21.56	22.74	21.97	23.13	23.53	22.01	23.19	22.42	23.59	23.99
	4H	22.32	23.39	22.75	23.80	24.24	22.79	23.86	23.22	24.27	24.71
	6H	22.87	23.80	23.32	24.24	24.70	23.36	24.29	23.81	24.73	25.19
	8H	23.01	23.89	23.47	24.33	24.79	23.52	24.40	23.98	24.84	25.30
	12H	23.10	23.88	23.58	24.36	24.83	23.62	24.40	24.10	24.88	25.34
8H	4H	22.67	23.54	23.13	23.98	24.45	23.08	23.95	23.54	24.39	24.86
	6H	23.33	24.05	23.82	24.54	25.01	23.76	24.49	24.25	24.97	25.45
	8H	23.53	24.18	24.04	24.69	25.17	23.99	24.64	24.50	25.15	25.64
	12H	23.67	24.24	24.17	24.73	25.29	24.14	24.72	24.65	25.21	25.77
12H	4H	22.70	23.49	23.18	23.96	24.43	23.10	23.89	23.58	24.36	24.83
	6H	23.38	24.03	23.89	24.54	25.02	23.80	24.45	24.31	24.96	25.44
	8H	23.64	24.21	24.15	24.70	25.26	24.09	24.66	24.59	25.15	25.71