

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: P1584736

Luminaire Tested: 14CZSP-A-65-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-A-65-L840-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 6200 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

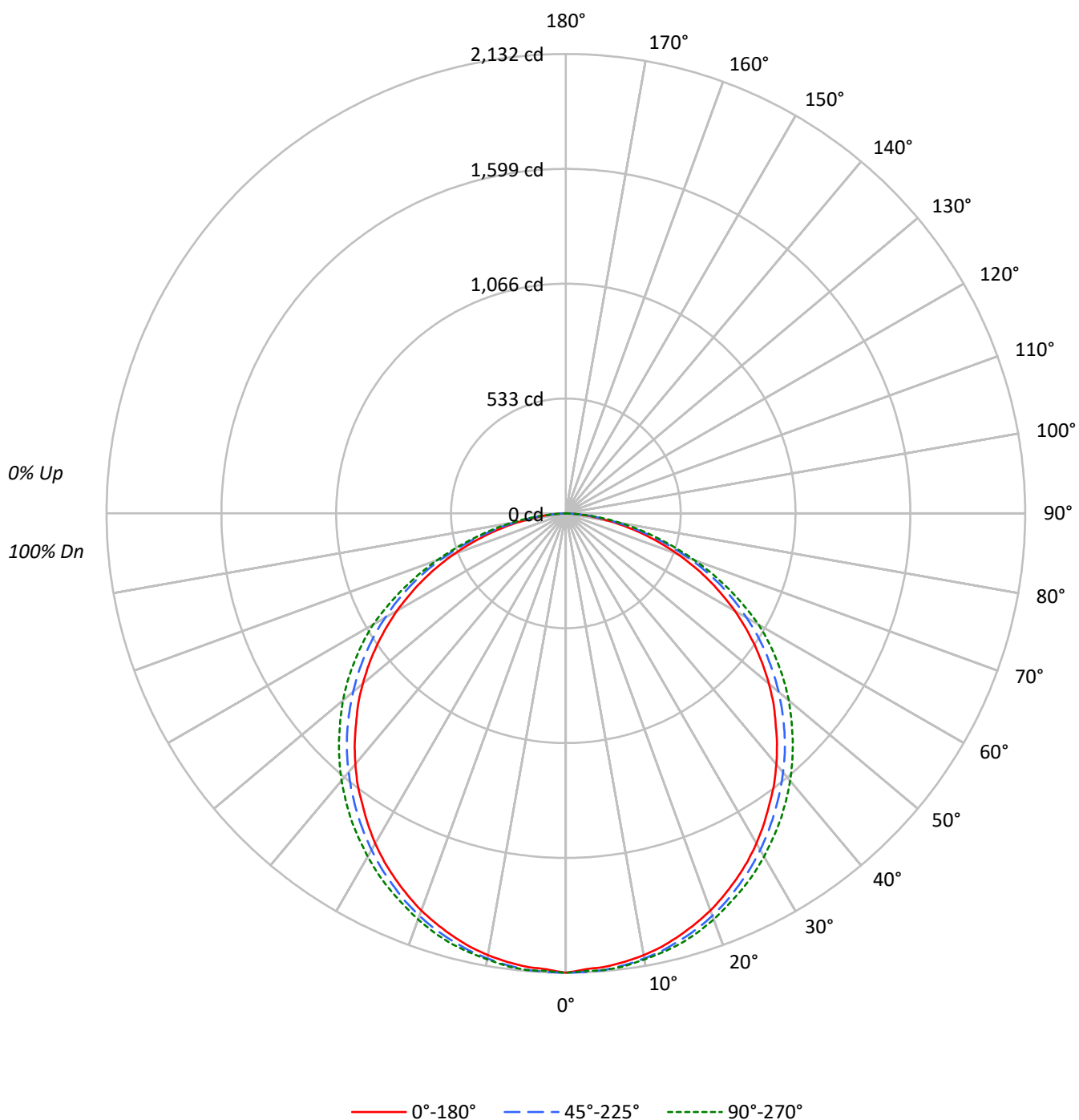
Lumens per Lamp: N/A
Luminaire Lumens: 6164.0 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1584736

CATALOG NUMBER: 14CZSP-A-65-L840-S

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7184	7184	7184
5°	7144	7190	7196
10°	7124	7177	7193
15°	7083	7156	7207
20°	7034	7128	7193
25°	6962	7074	7171
30°	6884	7018	7156
35°	6774	6957	7143
40°	6685	6900	7124
45°	6559	6840	7095
50°	6449	6759	7082
55°	6295	6662	7036
60°	6102	6530	6964
65°	5831	6351	6677
70°	5434	5998	6266
75°	4855	5409	5717
80°	3978	4560	5001
85°	2668	3333	3719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7095 cd/sqm

TEST NUMBER: P1584736

CATALOG NUMBER: 14CZSP-A-65-L840-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.9	3.3
10°-20°	578.9	9.4
20°-30°	876.6	14.2
30°-40°	1058.6	17.2
40°-50°	1106.3	17.9
50°-60°	1013.7	16.4
60°-70°	782.5	12.7
70°-80°	440.2	7.1
80°-90°	105.3	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°	1657.4	26.9
0°-40°	2716.0	44.1
0°-60°	4836.0	78.5
0°-90°	6164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6164.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2132	2132	2132	2132	2132	
5°	2112	2128	2126	2128	2128	201
15°	2030	2047	2051	2060	2066	573
25°	1873	1889	1903	1913	1929	863
35°	1647	1668	1691	1714	1737	1032
45°	1376	1404	1435	1464	1489	1064
55°	1072	1100	1134	1170	1198	957
65°	731	763	797	828	837	723
75°	373	407	416	433	439	395
85°	69	79	86	94	96	89
90°	0	0	0	0	0	

TEST NUMBER: P1584736

CATALOG NUMBER: 14CZSP-A-65-L840-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2132.1	2132.1	2132.1	2132.1	2132.1
2.5°	2117.6	2133.9	2130.3	2135.8	2125.8
5°	2112.2	2127.6	2125.8	2127.6	2127.6
7.5°	2098.6	2114.9	2114.0	2116.7	2118.5
10°	2082.2	2097.7	2097.7	2100.4	2102.2
12.5°	2059.5	2075.9	2077.7	2082.2	2085.9
15°	2030.5	2046.8	2051.4	2059.5	2065.9
17.5°	1997.9	2015.1	2022.4	2030.5	2038.7
20°	1961.6	1977.0	1987.9	1994.2	2006.0
22.5°	1918.9	1936.2	1948.0	1954.3	1967.0
25°	1872.6	1889.0	1902.6	1912.6	1928.9
27.5°	1823.7	1840.0	1856.3	1868.1	1887.2
30°	1769.2	1786.5	1803.7	1821.8	1839.1
32.5°	1710.2	1730.2	1749.3	1769.2	1788.3
35°	1646.7	1667.6	1691.2	1713.9	1736.6
37.5°	1587.8	1606.8	1631.3	1655.8	1678.5
40°	1519.7	1540.6	1568.7	1595.9	1619.5
42.5°	1450.8	1473.4	1504.3	1530.6	1556.0
45°	1376.4	1403.6	1435.3	1464.4	1488.9
47.5°	1307.4	1331.0	1362.8	1394.5	1419.9
50°	1230.3	1256.6	1289.3	1322.8	1351.0
52.5°	1152.3	1179.5	1213.0	1246.6	1275.7
55°	1071.5	1099.6	1134.1	1169.5	1197.6
57.5°	988.9	1018.9	1054.3	1089.7	1117.8
60°	905.5	935.4	969.0	1008.0	1033.4
62.5°	818.4	851.9	883.7	920.0	935.4
65°	731.3	763.0	796.6	828.4	837.4
67.5°	642.4	675.0	705.0	725.8	737.6
70°	551.6	587.0	608.8	628.8	636.0
72.5°	461.8	497.2	509.9	529.0	536.2
75°	372.9	407.4	415.5	432.8	439.1
77.5°	286.7	318.5	321.2	341.1	346.6
80°	205.0	230.5	235.0	254.0	257.7
82.5°	131.6	149.7	156.1	172.4	177.8
85°	69.0	78.9	86.2	94.4	96.2
87.5°	22.7	28.1	23.6	24.5	22.7
90°	0.0	0.0	0.0	0.0	0.0

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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	18.56	20.21	18.93	20.53	20.84	19.10	20.75	19.47	21.07	21.38
	3H	20.34	21.83	20.72	22.16	22.52	20.96	22.45	21.34	22.78	23.14
	4H	20.97	22.37	21.36	22.72	23.10	21.63	23.04	22.03	23.38	23.76
	6H	21.37	22.68	21.78	23.04	23.43	22.11	23.41	22.52	23.77	24.16
	8H	21.48	22.72	21.90	23.11	23.51	22.25	23.50	22.68	23.89	24.29
	12H	21.53	22.72	21.96	23.10	23.53	22.33	23.53	22.76	23.91	24.34
4H	2H	19.29	20.69	19.69	21.04	21.42	19.71	21.12	20.11	21.46	21.84
	3H	21.28	22.46	21.69	22.86	23.26	21.78	22.96	22.19	23.36	23.76
	4H	22.04	23.11	22.47	23.52	23.96	22.58	23.65	23.01	24.06	24.49
	6H	22.57	23.50	23.02	23.94	24.40	23.18	24.11	23.63	24.55	25.01
	8H	22.71	23.58	23.17	24.02	24.49	23.37	24.25	23.83	24.69	25.15
	12H	22.79	23.57	23.27	24.05	24.51	23.49	24.28	23.97	24.75	25.22
8H	4H	22.38	23.25	22.84	23.69	24.16	22.85	23.73	23.31	24.17	24.63
	6H	23.02	23.74	23.51	24.23	24.71	23.57	24.29	24.06	24.78	25.25
	8H	23.22	23.87	23.73	24.37	24.86	23.82	24.47	24.33	24.98	25.47
	12H	23.35	23.92	23.85	24.41	24.97	24.01	24.58	24.51	25.07	25.63
12H	4H	22.41	23.20	22.89	23.67	24.14	22.88	23.66	23.36	24.14	24.61
	6H	23.07	23.72	23.58	24.23	24.72	23.60	24.26	24.11	24.76	25.25
	8H	23.32	23.90	23.83	24.39	24.95	23.91	24.49	24.42	24.98	25.54