

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: P1584434

Luminaire Tested: 14CZSP-65-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584434
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-65-L835-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 6200 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

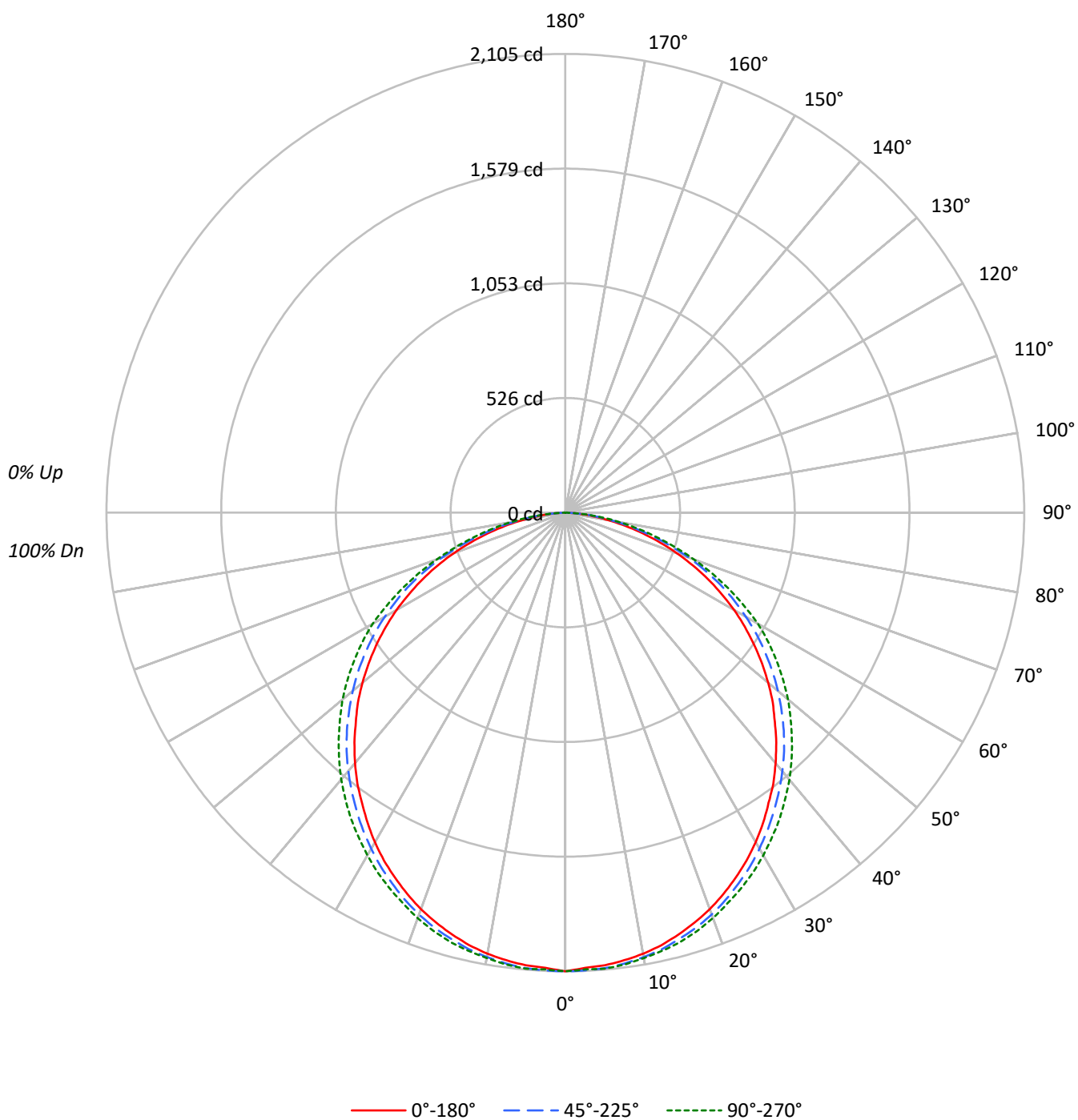
Lumens per Lamp: N/A
Luminaire Lumens: 6085.0 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1584434

CATALOG NUMBER: 14CZSP-65-L835-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			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	52		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	28		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°	7092	7092	7092
5°	7053	7098	7104
10°	7033	7085	7100
15°	6993	7064	7114
20°	6944	7037	7101
25°	6873	6983	7080
30°	6795	6928	7064
35°	6687	6867	7052
40°	6599	6812	7033
45°	6475	6752	7004
50°	6367	6672	6991
55°	6214	6577	6946
60°	6024	6447	6875
65°	5756	6270	6591
70°	5365	5921	6186
75°	4792	5340	5644
80°	3927	4502	4937
85°	2633	3290	3669

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7004 cd/sqm

TEST NUMBER: P1584434

CATALOG NUMBER: 14CZSP-65-L835-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.4	3.3
10°-20°	571.5	9.4
20°-30°	865.3	14.2
30°-40°	1045.0	17.2
40°-50°	1092.1	17.9
50°-60°	1000.7	16.4
60°-70°	772.5	12.7
70°-80°	434.5	7.1
80°-90°	104.0	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°	1636.2	26.9
0°-40°	2681.2	44.1
0°-60°	4774.0	78.5
0°-90°	6085.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6085.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2105	2105	2105	2105	2105	
5°	2085	2100	2098	2100	2100	198
15°	2004	2021	2025	2033	2039	566
25°	1849	1865	1878	1888	1904	852
35°	1626	1646	1670	1692	1714	1019
45°	1359	1386	1417	1446	1470	1050
55°	1058	1086	1120	1154	1182	945
65°	722	753	786	818	827	713
75°	368	402	410	427	434	390
85°	68	78	85	93	95	87
90°	0	0	0	0	0	

TEST NUMBER: P1584434

CATALOG NUMBER: 14CZSP-65-L835-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2104.8	2104.8	2104.8	2104.8	2104.8
2.5°	2090.5	2106.6	2103.0	2108.4	2098.5
5°	2085.1	2100.3	2098.5	2100.3	2100.3
7.5°	2071.7	2087.8	2086.9	2089.6	2091.4
10°	2055.5	2070.8	2070.8	2073.5	2075.2
12.5°	2033.2	2049.3	2051.1	2055.5	2059.1
15°	2004.5	2020.6	2025.1	2033.2	2039.4
17.5°	1972.2	1989.3	1996.4	2004.5	2012.6
20°	1936.4	1951.6	1962.4	1968.7	1980.3
22.5°	1894.3	1911.3	1923.0	1929.3	1941.8
25°	1848.6	1864.8	1878.2	1888.1	1904.2
27.5°	1800.3	1816.4	1832.5	1844.2	1863.0
30°	1746.5	1763.6	1780.6	1798.5	1815.5
32.5°	1688.3	1708.0	1726.8	1746.5	1765.4
35°	1625.6	1646.2	1669.5	1691.9	1714.3
37.5°	1567.4	1586.2	1610.4	1634.6	1657.0
40°	1500.2	1520.8	1548.6	1575.5	1598.8
42.5°	1432.2	1454.6	1485.0	1511.0	1536.1
45°	1358.7	1385.6	1416.9	1445.6	1469.8
47.5°	1290.6	1313.9	1345.3	1376.6	1401.7
50°	1214.5	1240.5	1272.7	1305.9	1333.6
52.5°	1137.5	1164.4	1197.5	1230.6	1259.3
55°	1057.8	1085.5	1119.6	1154.5	1182.3
57.5°	976.3	1005.8	1040.8	1075.7	1103.5
60°	893.9	923.4	956.6	995.1	1020.2
62.5°	807.9	841.0	872.4	908.2	923.4
65°	721.9	753.3	786.4	817.7	826.7
67.5°	634.1	666.4	695.9	716.5	728.2
70°	544.6	579.5	601.0	620.7	627.9
72.5°	455.9	490.8	503.4	522.2	529.3
75°	368.1	402.2	410.2	427.2	433.5
77.5°	283.0	314.4	317.1	336.8	342.1
80°	202.4	227.5	232.0	250.8	254.4
82.5°	129.9	147.8	154.1	170.2	175.5
85°	68.1	77.9	85.1	93.1	94.9
87.5°	22.4	27.8	23.3	24.2	22.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584434

CATALOG NUMBER: 14CZSP-65-L835-S

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	18.52	20.17	18.88	20.48	20.80	19.06	20.71	19.42	21.02	21.34
	3H	20.29	21.79	20.67	22.11	22.47	20.92	22.41	21.29	22.73	23.09
	4H	20.92	22.33	21.32	22.68	23.05	21.58	22.99	21.98	23.34	23.71
	6H	21.33	22.63	21.74	23.00	23.39	22.06	23.37	22.47	23.73	24.12
	8H	21.43	22.68	21.86	23.07	23.47	22.21	23.45	22.63	23.84	24.24
	12H	21.48	22.68	21.91	23.06	23.49	22.29	23.48	22.72	23.87	24.29
4H	2H	19.24	20.65	19.64	21.00	21.37	19.67	21.07	20.06	21.42	21.79
	3H	21.24	22.42	21.65	22.82	23.21	21.74	22.92	22.15	23.31	23.71
	4H	22.00	23.06	22.43	23.48	23.91	22.53	23.60	22.96	24.01	24.45
	6H	22.52	23.46	22.98	23.90	24.35	23.14	24.07	23.59	24.51	24.96
	8H	22.66	23.54	23.12	23.98	24.44	23.33	24.20	23.79	24.64	25.11
	12H	22.74	23.53	23.22	24.00	24.47	23.45	24.23	23.93	24.71	25.18
8H	4H	22.33	23.21	22.79	23.65	24.11	22.81	23.68	23.27	24.12	24.59
	6H	22.97	23.70	23.47	24.19	24.66	23.52	24.25	24.01	24.74	25.21
	8H	23.17	23.82	23.68	24.33	24.81	23.78	24.43	24.29	24.94	25.42
	12H	23.30	23.88	23.81	24.37	24.93	23.96	24.54	24.47	25.03	25.59
12H	4H	22.37	23.15	22.85	23.63	24.10	22.83	23.62	23.31	24.09	24.56
	6H	23.03	23.68	23.54	24.19	24.67	23.56	24.21	24.07	24.72	25.20
	8H	23.28	23.85	23.79	24.34	24.90	23.87	24.44	24.37	24.93	25.49