

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: P1584724

Luminaire Tested: 14CZSP-A-60VHE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584724
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-60VHE-L935-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 6200 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

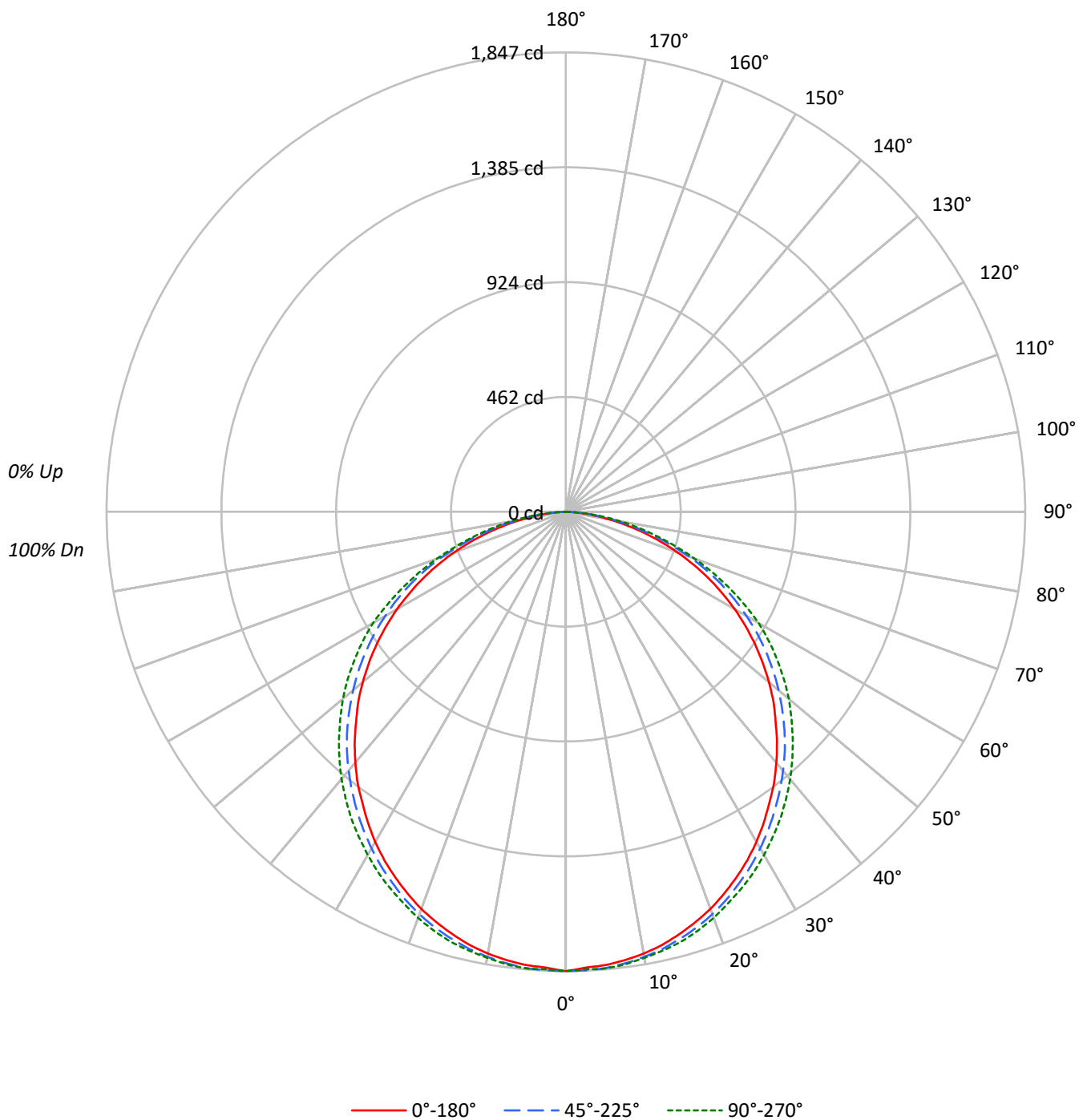
Lumens per Lamp: N/A
Luminaire Lumens: 5340.0 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 43.9
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: P1584724

CATALOG NUMBER: 14CZSP-A-60VHE-L935-S

Luminous Intensity Polar Plot



TEST NUMBER: P1584724

CATALOG NUMBER: 14CZSP-A-60VHE-L935-S

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°	6224	6224	6224
5°	6189	6229	6235
10°	6172	6218	6231
15°	6137	6200	6243
20°	6093	6175	6232
25°	6032	6128	6213
30°	5964	6080	6199
35°	5868	6027	6188
40°	5791	5978	6171
45°	5682	5926	6146
50°	5587	5855	6135
55°	5453	5772	6095
60°	5286	5658	6034
65°	5051	5502	5784
70°	4708	5196	5428
75°	4205	4687	4952
80°	3446	3951	4331
85°	2308	2888	3221

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6146 cd/sqm

TEST NUMBER: P1584724

CATALOG NUMBER: 14CZSP-A-60VHE-L935-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.9	3.3
10°-20°	501.5	9.4
20°-30°	759.4	14.2
30°-40°	917.1	17.2
40°-50°	958.4	17.9
50°-60°	878.2	16.4
60°-70°	677.9	12.7
70°-80°	381.3	7.1
80°-90°	91.2	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°	1435.9	26.9
0°-40°	2352.9	44.1
0°-60°	4189.5	78.5
0°-90°	5340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5340.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1847	1847	1847	1847	1847	
5°	1830	1843	1842	1843	1843	174
15°	1759	1773	1777	1784	1790	496
25°	1622	1636	1648	1657	1671	748
35°	1427	1445	1465	1485	1504	894
45°	1192	1216	1244	1269	1290	921
55°	928	953	982	1013	1038	829
65°	634	661	690	718	726	626
75°	323	353	360	375	380	342
85°	60	68	75	82	83	77
90°	0	0	0	0	0	

TEST NUMBER: P1584724

CATALOG NUMBER: 14CZSP-A-60VHE-L935-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1847.1	1847.1	1847.1	1847.1	1847.1
2.5°	1834.5	1848.7	1845.5	1850.3	1841.6
5°	1829.8	1843.2	1841.6	1843.2	1843.2
7.5°	1818.0	1832.2	1831.4	1833.7	1835.3
10°	1803.9	1817.2	1817.2	1819.6	1821.2
12.5°	1784.2	1798.4	1800.0	1803.9	1807.0
15°	1759.1	1773.2	1777.2	1784.2	1789.7
17.5°	1730.8	1745.7	1752.0	1759.1	1766.2
20°	1699.3	1712.7	1722.1	1727.6	1737.9
22.5°	1662.4	1677.3	1687.6	1693.1	1704.1
25°	1622.3	1636.5	1648.3	1656.9	1671.0
27.5°	1579.9	1594.0	1608.2	1618.4	1634.9
30°	1532.7	1547.6	1562.6	1578.3	1593.2
32.5°	1481.6	1498.9	1515.4	1532.7	1549.2
35°	1426.6	1444.7	1465.1	1484.8	1504.4
37.5°	1375.5	1392.0	1413.2	1434.5	1454.1
40°	1316.6	1334.6	1359.0	1382.6	1403.0
42.5°	1256.8	1276.5	1303.2	1326.0	1348.0
45°	1192.4	1215.9	1243.5	1268.6	1289.8
47.5°	1132.6	1153.1	1180.6	1208.1	1230.1
50°	1065.8	1088.6	1116.9	1146.0	1170.4
52.5°	998.2	1021.8	1050.9	1080.0	1105.1
55°	928.3	952.6	982.5	1013.2	1037.5
57.5°	856.7	882.7	913.3	944.0	968.4
60°	784.4	810.4	839.5	873.3	895.3
62.5°	709.0	738.1	765.6	797.0	810.4
65°	633.5	661.0	690.1	717.6	725.5
67.5°	556.5	584.8	610.7	628.8	639.0
70°	477.9	508.5	527.4	544.7	551.0
72.5°	400.1	430.7	441.7	458.2	464.5
75°	323.0	352.9	360.0	374.9	380.4
77.5°	248.4	275.9	278.2	295.5	300.3
80°	177.6	199.6	203.6	220.1	223.2
82.5°	114.0	129.7	135.2	149.3	154.1
85°	59.7	68.4	74.7	81.7	83.3
87.5°	19.7	24.4	20.4	21.2	19.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584724

CATALOG NUMBER: 14CZSP-A-60VHE-L935-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	18.07	19.72	18.43	20.03	20.34	18.61	20.25	18.97	20.57	20.88
	3H	19.84	21.33	20.22	21.66	22.02	20.46	21.95	20.84	22.28	22.64
	4H	20.47	21.87	20.86	22.22	22.60	21.13	22.54	21.53	22.88	23.26
	6H	20.88	22.18	21.29	22.54	22.93	21.61	22.91	22.02	23.28	23.67
	8H	20.98	22.23	21.40	22.61	23.01	21.75	23.00	22.18	23.39	23.79
	12H	21.03	22.22	21.46	22.60	23.03	21.84	23.03	22.27	23.41	23.84
4H	2H	18.79	20.20	19.19	20.54	20.92	19.21	20.62	19.61	20.97	21.34
	3H	20.78	21.96	21.19	22.36	22.76	21.28	22.46	21.69	22.86	23.26
	4H	21.54	22.61	21.97	23.02	23.46	22.08	23.15	22.51	23.56	24.00
	6H	22.07	23.00	22.52	23.44	23.90	22.68	23.62	23.14	24.06	24.51
	8H	22.21	23.08	22.67	23.52	23.99	22.87	23.75	23.33	24.19	24.65
	12H	22.29	23.07	22.77	23.55	24.02	22.99	23.78	23.47	24.25	24.72
8H	4H	21.88	22.75	22.34	23.19	23.66	22.36	23.23	22.81	23.67	24.14
	6H	22.52	23.24	23.01	23.73	24.21	23.07	23.79	23.56	24.28	24.76
	8H	22.72	23.37	23.23	23.87	24.36	23.33	23.98	23.83	24.48	24.97
	12H	22.85	23.42	23.35	23.91	24.47	23.51	24.08	24.01	24.57	25.13
12H	4H	21.92	22.70	22.39	23.18	23.64	22.38	23.16	22.86	23.64	24.11
	6H	22.57	23.23	23.08	23.73	24.22	23.10	23.76	23.61	24.26	24.75
	8H	22.83	23.40	23.33	23.89	24.45	23.41	23.99	23.92	24.48	25.04