

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: P1584726

Luminaire Tested: 14CZSP-A-60VHE-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584726
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-L940-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 6200 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

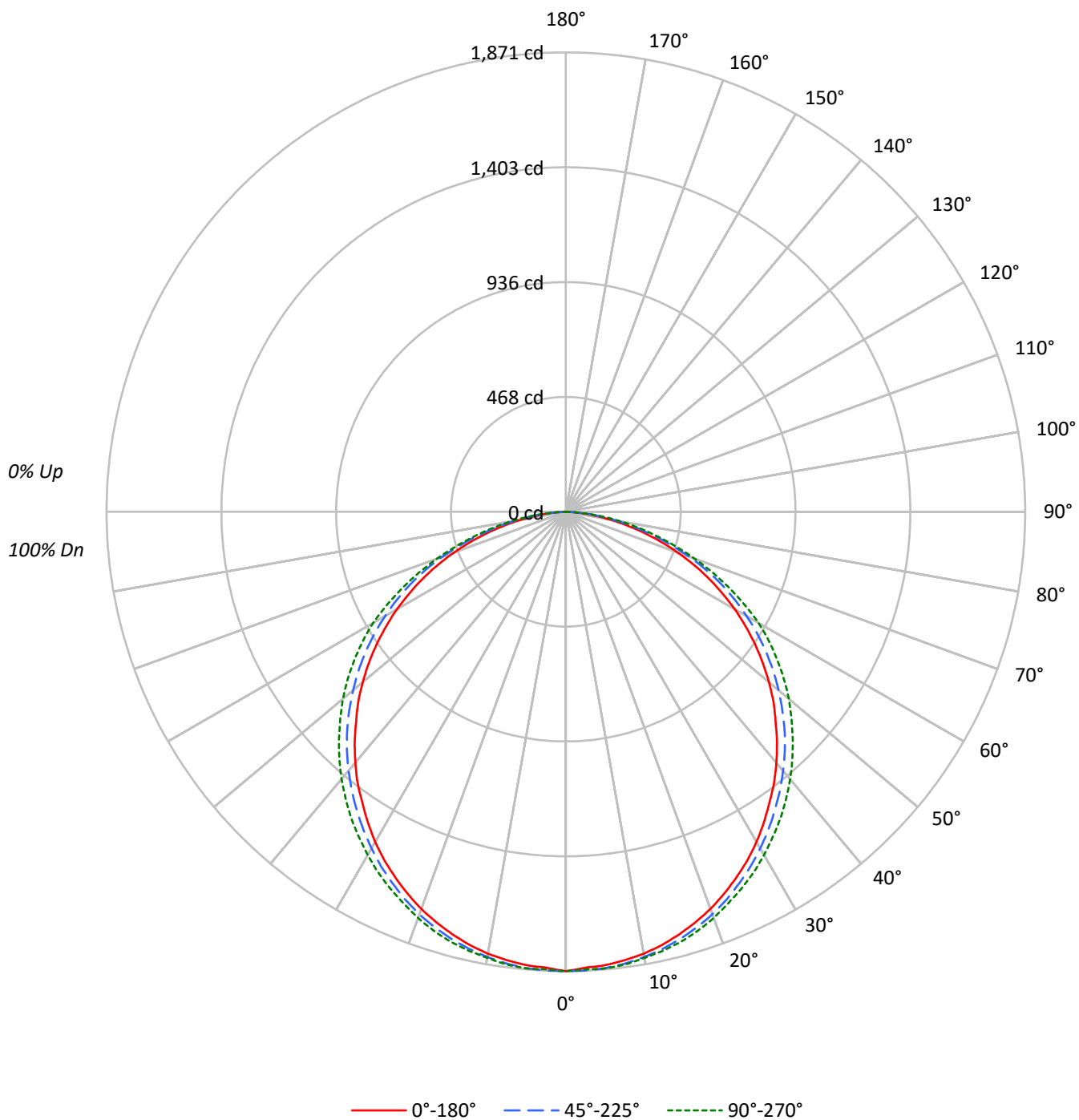
Lumens per Lamp: N/A
Luminaire Lumens: 5410.0 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

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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°	6305	6305	6305
5°	6270	6311	6316
10°	6253	6299	6313
15°	6217	6281	6325
20°	6173	6256	6313
25°	6111	6209	6294
30°	6042	6160	6280
35°	5945	6106	6269
40°	5867	6056	6252
45°	5756	6003	6227
50°	5660	5932	6216
55°	5525	5848	6175
60°	5356	5732	6112
65°	5117	5575	5860
70°	4770	5264	5499
75°	4261	4748	5018
80°	3493	4001	4389
85°	2339	2923	3263

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6227 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.2	3.3
10°-20°	508.1	9.4
20°-30°	769.3	14.2
30°-40°	929.1	17.2
40°-50°	971.0	17.9
50°-60°	889.7	16.4
60°-70°	686.8	12.7
70°-80°	386.3	7.1
80°-90°	92.4	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°	1454.7	26.9
0°-40°	2383.8	44.1
0°-60°	4244.4	78.5
0°-90°	5410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5410.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1871	1871	1871	1871	1871	
5°	1854	1867	1866	1867	1867	176
15°	1782	1796	1800	1808	1813	503
25°	1644	1658	1670	1679	1693	757
35°	1445	1464	1484	1504	1524	906
45°	1208	1232	1260	1285	1307	934
55°	940	965	995	1026	1051	840
65°	642	670	699	727	735	634
75°	327	358	365	380	385	347
85°	60	69	76	83	84	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1871.3	1871.3	1871.3	1871.3	1871.3
2.5°	1858.6	1872.9	1869.7	1874.5	1865.7
5°	1853.8	1867.3	1865.7	1867.3	1867.3
7.5°	1841.9	1856.2	1855.4	1857.8	1859.4
10°	1827.5	1841.1	1841.1	1843.5	1845.0
12.5°	1807.6	1822.0	1823.5	1827.5	1830.7
15°	1782.1	1796.5	1800.5	1807.6	1813.2
17.5°	1753.5	1768.6	1775.0	1782.1	1789.3
20°	1721.6	1735.2	1744.7	1750.3	1760.6
22.5°	1684.2	1699.3	1709.7	1715.2	1726.4
25°	1643.6	1657.9	1669.9	1678.6	1693.0
27.5°	1600.6	1614.9	1629.2	1639.6	1656.3
30°	1552.8	1567.9	1583.1	1599.0	1614.1
32.5°	1501.0	1518.6	1535.3	1552.8	1569.5
35°	1445.3	1463.6	1484.3	1504.2	1524.1
37.5°	1393.5	1410.3	1431.8	1453.3	1473.2
40°	1333.8	1352.1	1376.8	1400.7	1421.4
42.5°	1273.3	1293.2	1320.3	1343.4	1365.7
45°	1208.0	1231.9	1259.8	1285.2	1306.7
47.5°	1147.5	1168.2	1196.1	1223.9	1246.2
50°	1079.8	1102.9	1131.6	1161.0	1185.7
52.5°	1011.3	1035.2	1064.7	1094.1	1119.6
55°	940.4	965.1	995.4	1026.4	1051.1
57.5°	868.0	894.3	925.3	956.4	981.1
60°	794.7	821.0	850.5	884.7	907.0
62.5°	718.3	747.7	775.6	807.5	821.0
65°	641.8	669.7	699.2	727.0	735.0
67.5°	563.8	592.5	618.7	637.0	647.4
70°	484.2	515.2	534.3	551.8	558.2
72.5°	405.3	436.4	447.5	464.2	470.6
75°	327.3	357.5	364.7	379.8	385.4
77.5°	251.6	279.5	281.9	299.4	304.2
80°	180.0	202.3	206.2	223.0	226.2
82.5°	115.5	131.4	137.0	151.3	156.1
85°	60.5	69.3	75.6	82.8	84.4
87.5°	19.9	24.7	20.7	21.5	19.9
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	18.11	19.76	18.48	20.07	20.39	18.65	20.30	19.02	20.61	20.93
	3H	19.89	21.38	20.26	21.71	22.07	20.51	22.00	20.88	22.33	22.69
	4H	20.51	21.92	20.91	22.27	22.64	21.18	22.58	21.57	22.93	23.31
	6H	20.92	22.23	21.33	22.59	22.98	21.65	22.96	22.06	23.32	23.71
	8H	21.02	22.27	21.45	22.66	23.06	21.80	23.05	22.22	23.43	23.83
	12H	21.07	22.27	21.50	22.65	23.08	21.88	23.08	22.31	23.46	23.89
4H	2H	18.83	20.24	19.23	20.59	20.96	19.26	20.66	19.65	21.01	21.39
	3H	20.83	22.01	21.24	22.41	22.81	21.33	22.51	21.74	22.91	23.31
	4H	21.59	22.65	22.02	23.07	23.50	22.12	23.19	22.56	23.61	24.04
	6H	22.11	23.05	22.57	23.49	23.94	22.73	23.66	23.18	24.10	24.56
	8H	22.25	23.13	22.71	23.57	24.03	22.92	23.79	23.38	24.23	24.70
	12H	22.33	23.12	22.81	23.59	24.06	23.04	23.82	23.52	24.30	24.77
8H	4H	21.92	22.80	22.38	23.24	23.70	22.40	23.27	22.86	23.72	24.18
	6H	22.56	23.29	23.06	23.78	24.25	23.11	23.84	23.61	24.33	24.80
	8H	22.76	23.41	23.27	23.92	24.41	23.37	24.02	23.88	24.53	25.01
	12H	22.89	23.47	23.40	23.96	24.52	23.55	24.13	24.06	24.62	25.18
12H	4H	21.96	22.75	22.44	23.22	23.69	22.42	23.21	22.90	23.68	24.15
	6H	22.62	23.27	23.13	23.78	24.26	23.15	23.80	23.66	24.31	24.79
	8H	22.87	23.45	23.38	23.94	24.50	23.46	24.03	23.96	24.52	25.08