

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: P1584377

Luminaire Tested: 14CZSP-54HE-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2602-698-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-54HE-L840
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 5000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

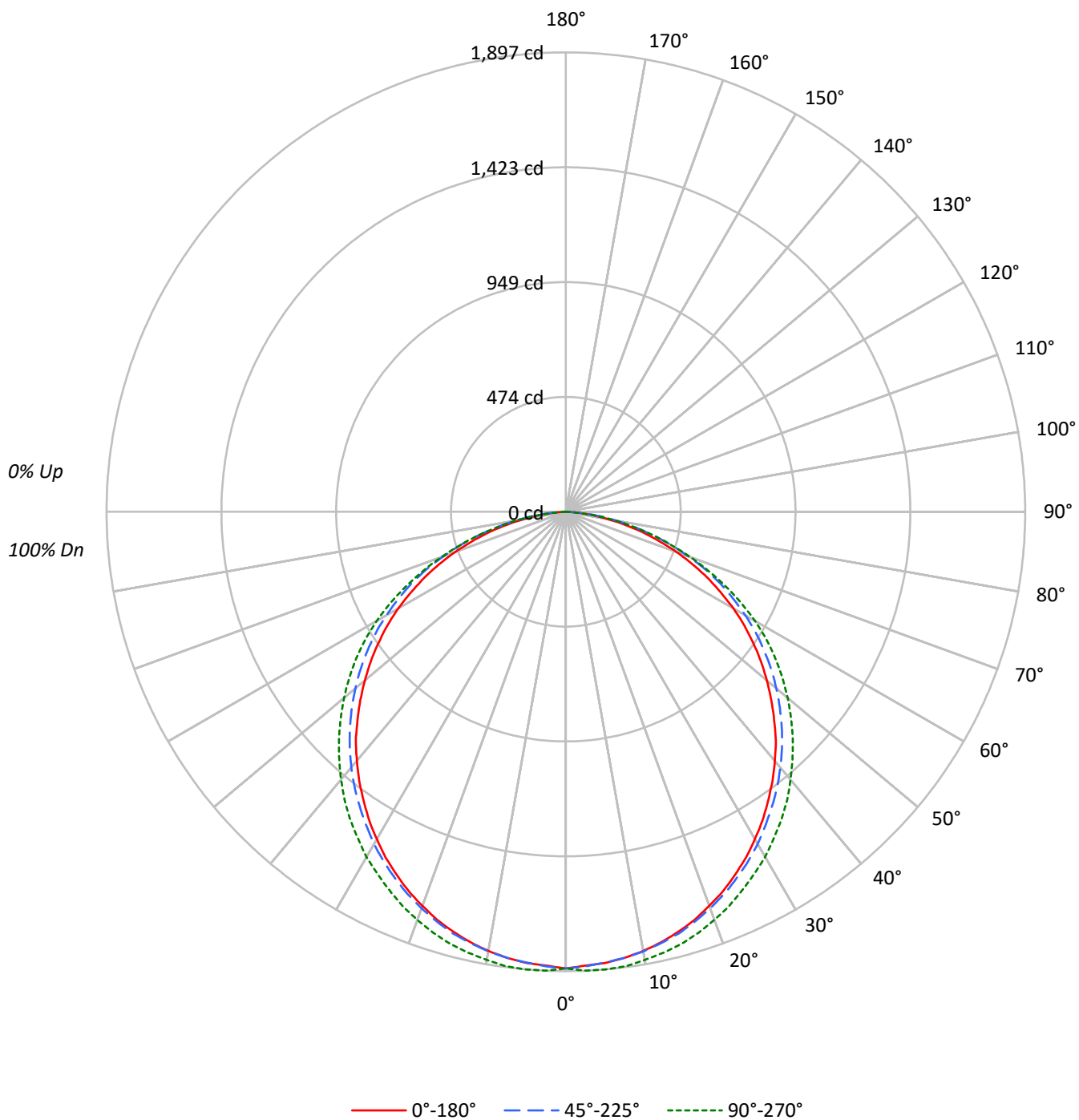
Lumens per Lamp: N/A
Luminaire Lumens: 5433.0 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.3
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		94	91	88		90
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	73	61	53	47	59	52	46		57	51	46		55
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	44	37	32		43	36	32		42
9	56	43	34	29	55	42	34	29	41	34	29		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°	6355	6355	6355
5°	6326	6320	6416
10°	6301	6308	6429
15°	6264	6289	6444
20°	6209	6248	6432
25°	6148	6207	6412
30°	6074	6164	6406
35°	5990	6107	6385
40°	5906	6062	6351
45°	5797	6009	6314
50°	5679	5949	6266
55°	5550	5874	6208
60°	5386	5769	6080
65°	5140	5622	5806
70°	4794	5301	5389
75°	4278	4786	4833
80°	3481	4032	3997
85°	2266	2815	2196

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6314 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.7	3.3
10°-20°	511.9	9.4
20°-30°	775.3	14.3
30°-40°	936.5	17.2
40°-50°	978.3	18.0
50°-60°	895.9	16.5
60°-70°	688.3	12.7
70°-80°	383.3	7.1
80°-90°	84.9	1.6
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°	1465.8	27.0
0°-40°	2402.3	44.2
0°-60°	4276.5	78.7
0°-90°	5433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5433.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1886	1886	1886	1886	1886	
5°	1870	1890	1868	1879	1897	178
15°	1796	1813	1803	1820	1847	507
25°	1654	1673	1669	1694	1724	762
35°	1456	1478	1485	1520	1552	911
45°	1217	1243	1261	1298	1325	939
55°	945	975	1000	1035	1057	844
65°	645	678	705	719	728	637
75°	329	362	368	368	371	348
85°	59	69	73	60	57	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1886.1	1886.1	1886.1	1886.1	1886.1
2.5°	1875.5	1893.2	1879.0	1884.3	1896.8
5°	1870.1	1889.7	1868.4	1879.0	1896.8
7.5°	1857.7	1875.5	1857.7	1870.1	1893.2
10°	1841.7	1861.3	1843.5	1855.9	1879.0
12.5°	1820.4	1836.4	1824.0	1841.7	1864.8
15°	1795.5	1813.3	1802.7	1820.4	1847.1
17.5°	1767.1	1783.1	1774.2	1797.3	1822.2
20°	1731.6	1749.4	1742.3	1765.4	1793.8
22.5°	1696.1	1713.8	1708.5	1731.6	1761.8
25°	1653.5	1673.0	1669.4	1694.3	1724.5
27.5°	1610.8	1630.4	1628.6	1657.0	1685.4
30°	1561.1	1580.6	1584.2	1614.4	1646.4
32.5°	1511.4	1532.7	1534.5	1568.2	1598.4
35°	1456.3	1477.6	1484.7	1520.3	1552.2
37.5°	1401.3	1422.6	1433.2	1467.0	1500.7
40°	1342.7	1365.8	1378.2	1413.7	1443.9
42.5°	1284.1	1307.1	1321.4	1356.9	1385.3
45°	1216.6	1243.2	1261.0	1298.3	1324.9
47.5°	1150.9	1179.3	1198.8	1234.3	1261.0
50°	1083.4	1113.6	1134.9	1170.4	1195.3
52.5°	1015.9	1047.8	1069.2	1102.9	1127.8
55°	944.8	975.0	999.9	1035.4	1056.7
57.5°	873.8	904.0	930.6	962.6	982.1
60°	799.2	831.2	856.0	888.0	902.2
62.5°	721.1	754.8	779.7	804.5	817.0
65°	644.7	678.4	705.1	719.3	728.2
67.5°	566.5	600.3	625.2	632.3	637.6
70°	486.6	520.4	538.1	541.7	547.0
72.5°	406.7	440.5	454.7	454.7	456.4
75°	328.6	362.3	367.6	367.6	371.2
77.5°	252.2	282.4	285.9	285.9	285.9
80°	179.4	202.5	207.8	207.8	206.0
82.5°	113.7	129.6	138.5	131.4	127.9
85°	58.6	69.3	72.8	60.4	56.8
87.5°	17.8	21.3	17.8	10.7	8.9
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	18.17	19.82	18.53	20.13	20.45	18.68	20.32	19.04	20.64	20.95
	3H	19.94	21.43	20.32	21.76	22.12	20.47	21.96	20.85	22.29	22.65
	4H	20.56	21.97	20.96	22.32	22.69	21.10	22.51	21.50	22.86	23.23
	6H	20.97	22.27	21.38	22.63	23.02	21.53	22.83	21.94	23.19	23.58
	8H	21.07	22.31	21.49	22.70	23.10	21.63	22.87	22.05	23.26	23.66
	12H	21.11	22.30	21.54	22.68	23.11	21.67	22.86	22.10	23.24	23.67
4H	2H	18.89	20.29	19.29	20.64	21.02	19.29	20.69	19.68	21.04	21.41
	3H	20.88	22.06	21.29	22.46	22.86	21.30	22.48	21.71	22.87	23.27
	4H	21.64	22.71	22.07	23.12	23.55	22.05	23.12	22.48	23.53	23.96
	6H	22.16	23.09	22.62	23.53	23.99	22.59	23.52	23.04	23.96	24.41
	8H	22.30	23.17	22.76	23.61	24.07	22.73	23.60	23.19	24.04	24.51
	12H	22.37	23.15	22.85	23.63	24.09	22.80	23.58	23.28	24.05	24.52
8H	4H	21.97	22.84	22.43	23.29	23.75	22.34	23.21	22.80	23.65	24.11
	6H	22.61	23.33	23.10	23.82	24.29	22.98	23.70	23.47	24.19	24.66
	8H	22.80	23.45	23.31	23.95	24.44	23.17	23.82	23.68	24.33	24.81
	12H	22.92	23.49	23.43	23.98	24.54	23.28	23.85	23.78	24.34	24.90
12H	4H	22.01	22.79	22.48	23.26	23.73	22.36	23.14	22.84	23.62	24.09
	6H	22.66	23.31	23.17	23.81	24.30	23.02	23.67	23.53	24.17	24.66
	8H	22.90	23.47	23.41	23.96	24.52	23.26	23.83	23.77	24.32	24.88