

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: P1584391

Luminaire Tested: 14CZSP-54HE-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584391
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-L950
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

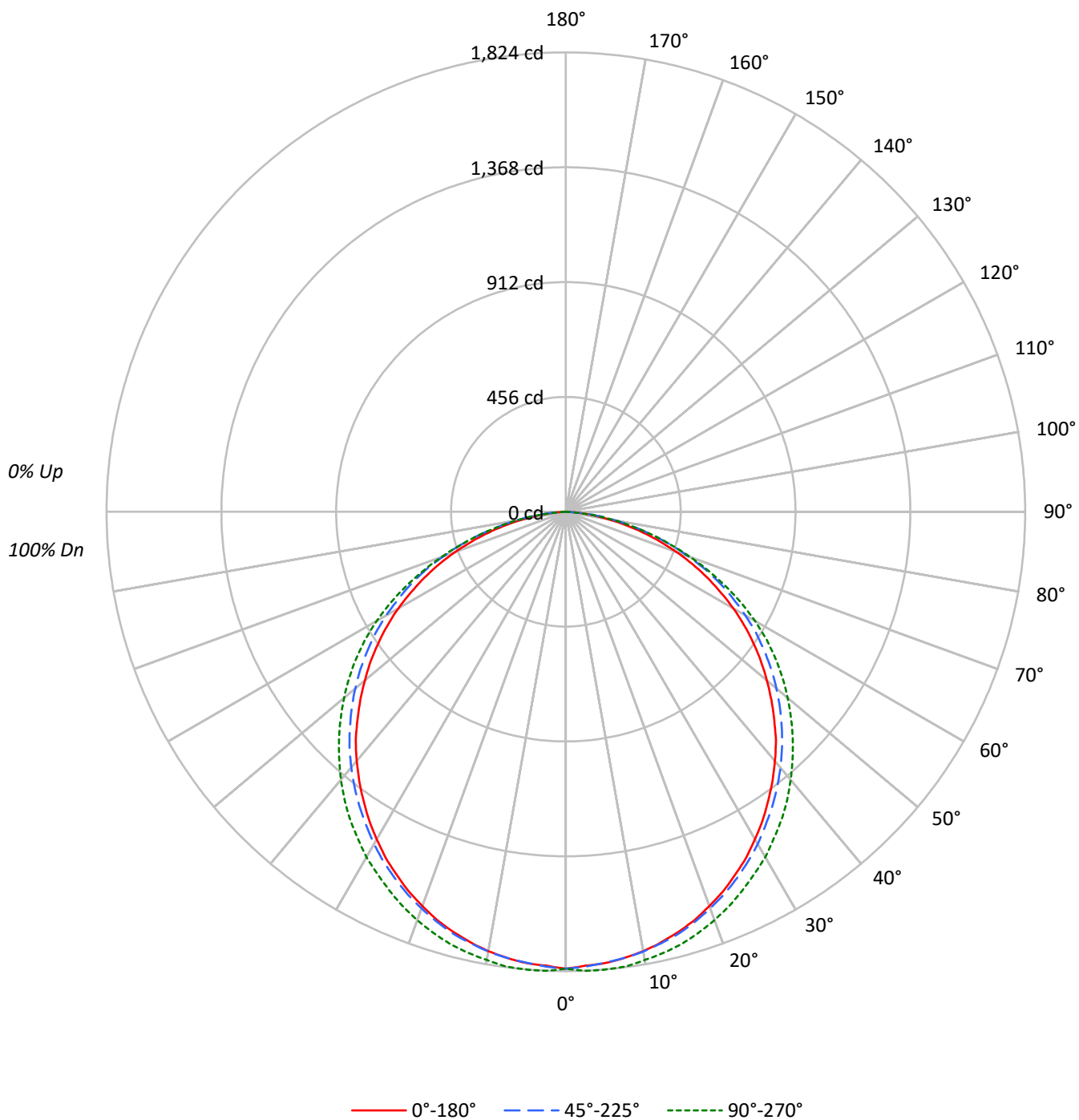
Lumens per Lamp: N/A
Luminaire Lumens: 5226.0 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	6113	6113	6113
5°	6085	6079	6171
10°	6062	6067	6184
15°	6025	6049	6198
20°	5973	6009	6187
25°	5913	5970	6167
30°	5843	5929	6162
35°	5762	5875	6142
40°	5681	5831	6109
45°	5576	5780	6073
50°	5463	5722	6027
55°	5339	5650	5972
60°	5181	5549	5848
65°	4944	5407	5584
70°	4612	5099	5184
75°	4114	4604	4648
80°	3347	3879	3846
85°	2181	2706	2115

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6073 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	3.3
10°-20°	492.4	9.4
20°-30°	745.8	14.3
30°-40°	900.8	17.2
40°-50°	941.0	18.0
50°-60°	861.7	16.5
60°-70°	662.1	12.7
70°-80°	368.7	7.1
80°-90°	81.7	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°	1410.0	27.0
0°-40°	2310.8	44.2
0°-60°	4113.5	78.7
0°-90°	5226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5226.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1814	1814	1814	1814	1814	
5°	1799	1818	1797	1807	1824	171
15°	1727	1744	1734	1751	1777	487
25°	1590	1609	1606	1630	1659	733
35°	1401	1421	1428	1462	1493	877
45°	1170	1196	1213	1249	1274	903
55°	909	938	962	996	1016	812
65°	620	653	678	692	700	613
75°	316	348	354	354	357	335
85°	56	67	70	58	55	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1814.3	1814.3	1814.3	1814.3	1814.3
2.5°	1804.0	1821.1	1807.4	1812.6	1824.5
5°	1798.9	1817.7	1797.2	1807.4	1824.5
7.5°	1786.9	1804.0	1786.9	1798.9	1821.1
10°	1771.6	1790.3	1773.3	1785.2	1807.4
12.5°	1751.1	1766.4	1754.5	1771.6	1793.8
15°	1727.1	1744.2	1734.0	1751.1	1776.7
17.5°	1699.8	1715.2	1706.6	1728.8	1752.8
20°	1665.6	1682.7	1675.9	1698.1	1725.4
22.5°	1631.5	1648.6	1643.4	1665.6	1694.7
25°	1590.5	1609.3	1605.8	1629.8	1658.8
27.5°	1549.5	1568.3	1566.6	1593.9	1621.2
30°	1501.6	1520.4	1523.8	1552.9	1583.6
32.5°	1453.8	1474.3	1476.0	1508.5	1537.5
35°	1400.8	1421.3	1428.2	1462.3	1493.1
37.5°	1347.9	1368.4	1378.6	1411.1	1443.5
40°	1291.5	1313.7	1325.7	1359.8	1388.9
42.5°	1235.1	1257.3	1271.0	1305.2	1332.5
45°	1170.2	1195.8	1212.9	1248.8	1274.4
47.5°	1107.0	1134.3	1153.1	1187.3	1212.9
50°	1042.1	1071.1	1091.6	1125.8	1149.7
52.5°	977.2	1007.9	1028.4	1060.9	1084.8
55°	908.8	937.9	961.8	996.0	1016.5
57.5°	840.5	869.5	895.2	925.9	944.7
60°	768.8	799.5	823.4	854.2	867.8
62.5°	693.6	726.0	750.0	773.9	785.8
65°	620.1	652.6	678.2	691.9	700.4
67.5°	545.0	577.4	601.3	608.2	613.3
70°	468.1	500.5	517.6	521.0	526.2
72.5°	391.2	423.7	437.3	437.3	439.0
75°	316.0	348.5	353.6	353.6	357.0
77.5°	242.6	271.6	275.0	275.0	275.0
80°	172.5	194.8	199.9	199.9	198.2
82.5°	109.3	124.7	133.3	126.4	123.0
85°	56.4	66.6	70.0	58.1	54.7
87.5°	17.1	20.5	17.1	10.3	8.5
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	18.03	19.68	18.40	20.00	20.31	18.54	20.19	18.91	20.50	20.82
	3H	19.81	21.30	20.18	21.62	21.98	20.34	21.83	20.71	22.15	22.51
	4H	20.43	21.83	20.83	22.18	22.56	20.97	22.37	21.37	22.72	23.10
	6H	20.83	22.13	21.24	22.50	22.89	21.39	22.69	21.80	23.06	23.45
	8H	20.93	22.17	21.35	22.56	22.96	21.50	22.74	21.92	23.13	23.53
	12H	20.98	22.17	21.40	22.55	22.98	21.53	22.73	21.96	23.11	23.54
4H	2H	18.76	20.16	19.15	20.51	20.88	19.15	20.56	19.55	20.90	21.28
	3H	20.75	21.93	21.16	22.32	22.72	21.16	22.34	21.57	22.74	23.14
	4H	21.51	22.57	21.94	22.98	23.42	21.92	22.98	22.35	23.39	23.83
	6H	22.03	22.96	22.48	23.40	23.85	22.45	23.38	22.91	23.82	24.28
	8H	22.16	23.03	22.62	23.47	23.94	22.60	23.47	23.05	23.91	24.37
	12H	22.23	23.02	22.71	23.49	23.96	22.66	23.44	23.14	23.92	24.39
8H	4H	21.84	22.71	22.30	23.15	23.61	22.20	23.07	22.66	23.51	23.98
	6H	22.47	23.19	22.97	23.68	24.16	22.84	23.56	23.34	24.05	24.53
	8H	22.66	23.31	23.17	23.82	24.30	23.04	23.68	23.55	24.19	24.68
	12H	22.79	23.36	23.29	23.85	24.41	23.14	23.71	23.65	24.21	24.77
12H	4H	21.87	22.65	22.35	23.13	23.60	22.23	23.01	22.71	23.48	23.95
	6H	22.52	23.17	23.03	23.68	24.16	22.88	23.53	23.39	24.04	24.52
	8H	22.77	23.34	23.27	23.83	24.39	23.12	23.70	23.63	24.19	24.75