

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: P1584397

Luminaire Tested: 14CZSP-54VHE-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-776-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-54VHE-L840
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 5200 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

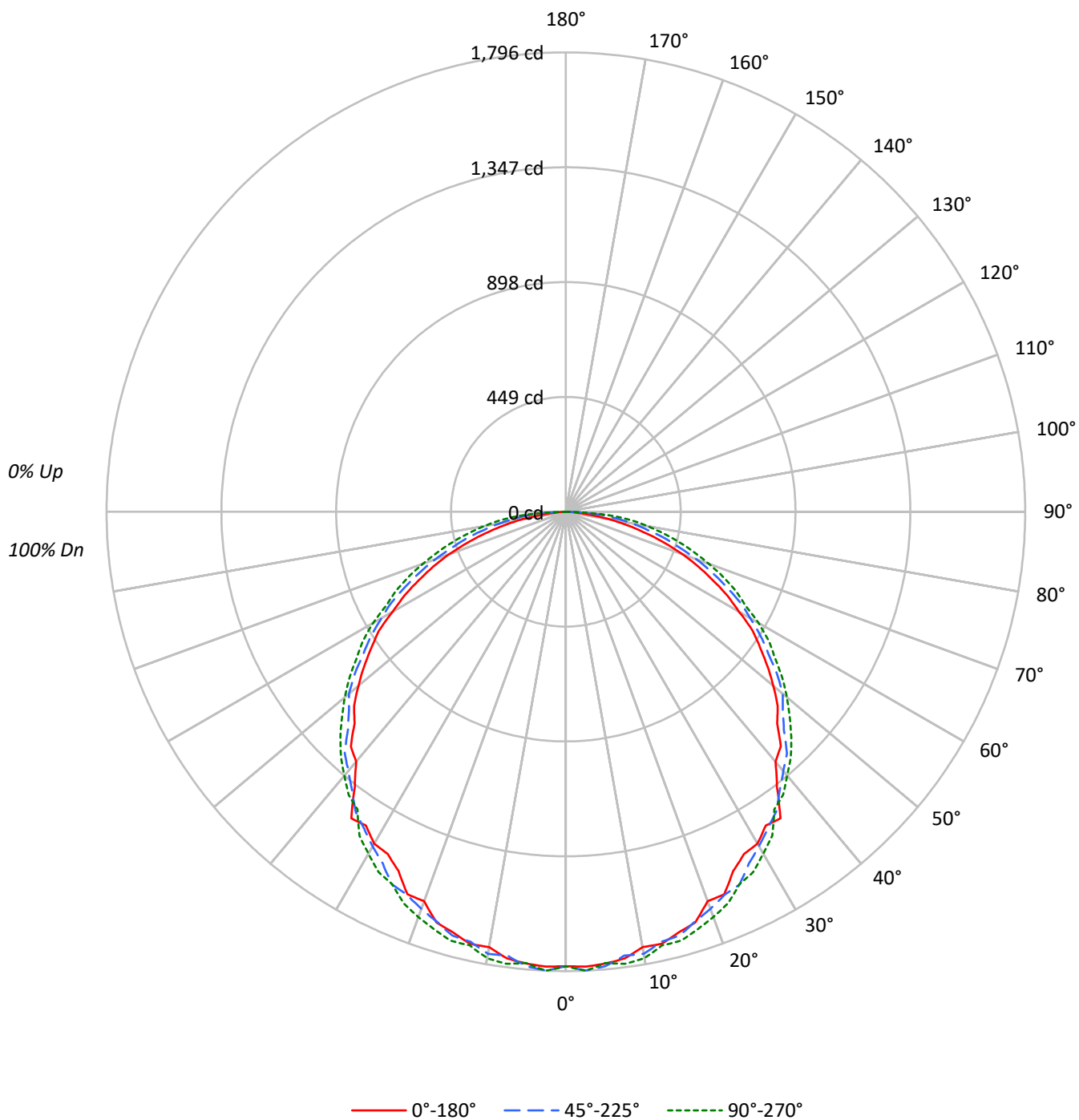
Lumens per Lamp: N/A
Luminaire Lumens: 5326.0 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	88	81	75	84	78	74		81	76	72		78
3	89	78	70	63	87	77	69	63	74	67	61		71	65	60		68
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61
5	75	62	52	46	73	61	52	45	58	51	45		56	50	44		55
6	69	55	46	40	67	54	46	40	53	45	39		51	44	39		49
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5987	5987	5987
5°	5998	6032	5992
10°	5913	6004	6064
15°	5940	5984	6058
20°	5810	5925	6046
25°	5759	5977	5973
30°	5831	5877	6005
35°	6018	5893	5844
40°	5609	5819	5923
45°	5566	5745	5941
50°	5552	5802	5912
55°	5453	5674	5867
60°	5269	5608	5867
65°	5065	5510	5854
70°	4789	5358	5862
75°	4231	5232	5971
80°	3481	5098	6324
85°	1945	5378	7044

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 7044 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.4	3.2
10°-20°	483.4	9.1
20°-30°	734.6	13.8
30°-40°	893.4	16.8
40°-50°	937.8	17.6
50°-60°	867.3	16.3
60°-70°	683.3	12.8
70°-80°	420.0	7.9
80°-90°	137.9	2.6
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°	1386.4	26.0
0°-40°	2279.8	42.8
0°-60°	4084.9	76.7
0°-90°	5326.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5326.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1777	1777	1777	1777	1777	
5°	1773	1742	1783	1768	1771	168
15°	1703	1698	1716	1738	1737	480
25°	1549	1577	1608	1603	1607	719
35°	1463	1411	1433	1455	1421	886
45°	1168	1193	1206	1240	1247	908
55°	928	958	966	990	999	830
65°	635	660	691	721	734	629
75°	325	361	402	443	459	346
85°	50	88	139	170	182	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1776.8	1776.8	1776.8	1776.8	1776.8
2.5°	1779.6	1782.3	1795.2	1766.8	1796.1
5°	1773.2	1742.1	1783.3	1767.7	1771.4
7.5°	1761.3	1764.9	1750.3	1759.5	1782.3
10°	1728.3	1751.2	1754.9	1758.5	1772.3
12.5°	1730.2	1715.5	1721.9	1748.5	1736.6
15°	1702.7	1698.1	1715.5	1738.4	1736.6
17.5°	1683.5	1673.4	1679.8	1690.8	1711.8
20°	1620.3	1646.9	1652.3	1686.2	1686.2
22.5°	1618.5	1617.6	1621.2	1638.6	1656.9
25°	1548.9	1577.3	1607.5	1602.9	1606.6
27.5°	1508.6	1540.7	1550.7	1581.9	1587.4
30°	1498.6	1504.0	1510.5	1544.3	1543.4
32.5°	1454.6	1463.8	1468.3	1487.6	1502.2
35°	1462.9	1410.7	1432.6	1454.6	1420.7
37.5°	1355.7	1364.0	1373.1	1389.6	1395.1
40°	1275.2	1296.2	1322.8	1342.0	1346.6
42.5°	1244.1	1275.2	1279.8	1297.2	1301.7
45°	1168.1	1192.8	1205.6	1240.4	1246.8
47.5°	1123.2	1126.9	1149.8	1182.7	1187.3
50°	1059.1	1083.9	1106.8	1121.4	1127.8
52.5°	994.2	1021.6	1039.9	1053.7	1066.5
55°	928.2	957.5	965.8	990.5	998.7
57.5°	866.9	876.1	902.6	926.4	941.1
60°	781.8	812.9	832.1	876.1	870.6
62.5°	713.1	734.2	769.9	791.8	789.1
65°	635.3	660.0	691.1	721.4	734.2
67.5°	561.2	594.1	617.0	656.4	665.5
70°	486.1	501.7	543.8	582.2	595.0
72.5°	405.5	430.3	466.9	509.0	524.5
75°	325.0	360.7	401.9	443.1	458.6
77.5°	249.0	280.1	326.8	374.4	390.0
80°	179.4	207.8	262.7	306.7	325.9
82.5°	105.3	143.7	197.7	246.2	260.9
85°	50.3	87.9	139.1	170.3	182.2
87.5°	13.7	39.4	61.3	79.6	82.4
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	18.02	19.69	18.39	20.01	20.32	18.45	20.12	18.82	20.44	20.75
	3H	19.83	21.35	20.21	21.67	22.03	20.54	22.05	20.92	22.38	22.74
	4H	20.47	21.90	20.87	22.25	22.62	21.42	22.85	21.82	23.20	23.57
	6H	20.88	22.21	21.29	22.57	22.97	22.20	23.53	22.62	23.90	24.29
	8H	20.98	22.25	21.40	22.64	23.04	22.54	23.81	22.97	24.20	24.60
	12H	21.02	22.24	21.45	22.62	23.05	22.83	24.05	23.26	24.43	24.86
4H	2H	18.75	20.18	19.15	20.53	20.91	19.09	20.52	19.49	20.87	21.24
	3H	20.78	21.99	21.19	22.38	22.78	21.40	22.61	21.81	23.00	23.40
	4H	21.56	22.65	21.99	23.06	23.50	22.44	23.54	22.87	23.95	24.38
	6H	22.10	23.06	22.55	23.50	23.95	23.39	24.35	23.85	24.79	25.25
	8H	22.24	23.14	22.69	23.58	24.04	23.81	24.71	24.27	25.15	25.62
	12H	22.31	23.12	22.79	23.59	24.06	24.18	24.99	24.66	25.46	25.93
8H	4H	21.99	22.89	22.45	23.33	23.80	22.76	23.66	23.22	24.10	24.57
	6H	22.67	23.42	23.16	23.91	24.38	23.88	24.63	24.37	25.12	25.59
	8H	22.88	23.56	23.39	24.06	24.55	24.42	25.09	24.93	25.60	26.08
	12H	23.02	23.62	23.52	24.11	24.67	24.92	25.52	25.43	26.01	26.57
12H	4H	22.07	22.88	22.55	23.36	23.83	22.80	23.61	23.27	24.08	24.55
	6H	22.80	23.48	23.31	23.98	24.46	23.94	24.62	24.45	25.12	25.61
	8H	23.09	23.69	23.59	24.17	24.73	24.56	25.15	25.06	25.64	26.20