

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: P1584393

Luminaire Tested: 14CZSP-54VHE-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584393
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-L830
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 5200 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

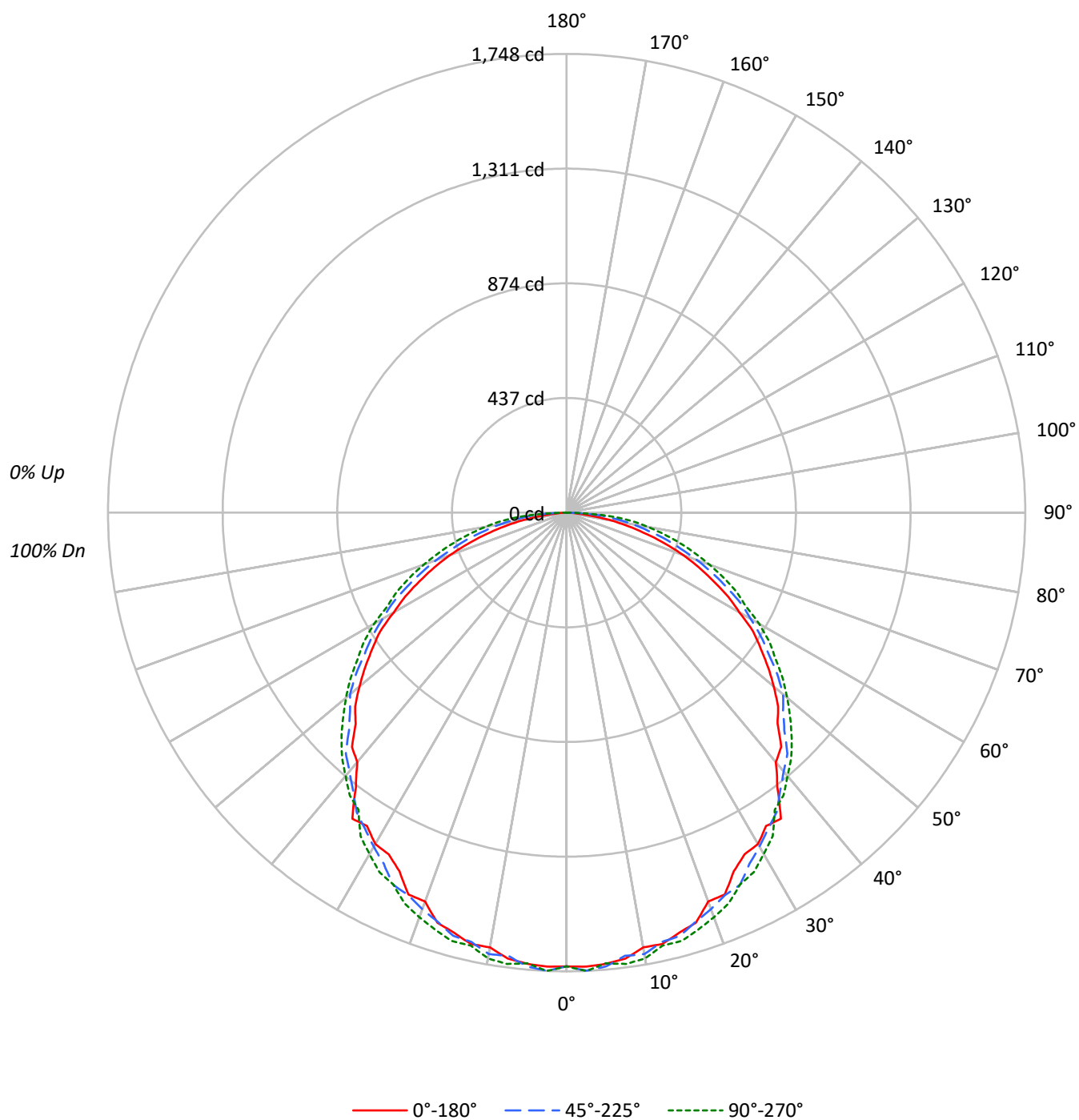
Lumens per Lamp: N/A
Luminaire Lumens: 5183.0 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	61		71	65	60		68	63	59	57
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45		56	50	44		55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5826	5826	5826
5°	5837	5870	5831
10°	5755	5843	5901
15°	5780	5824	5895
20°	5654	5766	5884
25°	5604	5816	5813
30°	5674	5719	5844
35°	5856	5735	5687
40°	5459	5662	5764
45°	5417	5591	5782
50°	5403	5646	5753
55°	5307	5521	5710
60°	5127	5457	5709
65°	4929	5363	5697
70°	4660	5214	5705
75°	4118	5092	5810
80°	3388	4962	6153
85°	1894	5235	6855

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 6855 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.9	3.2
10°-20°	470.4	9.1
20°-30°	714.9	13.8
30°-40°	869.4	16.8
40°-50°	912.6	17.6
50°-60°	844.0	16.3
60°-70°	664.9	12.8
70°-80°	408.7	7.9
80°-90°	134.2	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°	1349.2	26.0
0°-40°	2218.6	42.8
0°-60°	3975.2	76.7
0°-90°	5183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5183.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1729	1729	1729	1729	1729	
5°	1726	1695	1735	1720	1724	163
15°	1657	1652	1670	1692	1690	467
25°	1507	1535	1564	1560	1563	700
35°	1424	1373	1394	1416	1383	863
45°	1137	1161	1173	1207	1213	884
55°	903	932	940	964	972	807
65°	618	642	673	702	714	612
75°	316	351	391	431	446	337
85°	49	86	135	166	177	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1729.1	1729.1	1729.1	1729.1	1729.1
2.5°	1731.8	1734.5	1747.0	1719.3	1747.8
5°	1725.6	1695.3	1735.4	1720.2	1723.8
7.5°	1714.0	1717.6	1703.3	1712.2	1734.5
10°	1681.9	1704.2	1707.8	1711.3	1724.7
12.5°	1683.7	1669.5	1675.7	1701.5	1689.9
15°	1657.0	1652.5	1669.5	1691.7	1689.9
17.5°	1638.3	1628.5	1634.7	1645.4	1665.9
20°	1576.8	1602.6	1608.0	1640.9	1640.9
22.5°	1575.0	1574.1	1577.7	1594.6	1612.4
25°	1507.3	1534.9	1564.3	1559.9	1563.4
27.5°	1468.1	1499.3	1509.1	1539.4	1544.7
30°	1458.3	1463.7	1469.9	1502.9	1502.0
32.5°	1415.6	1424.5	1428.9	1447.6	1461.9
35°	1423.6	1372.8	1394.2	1415.6	1382.6
37.5°	1319.3	1327.4	1336.3	1352.3	1357.7
40°	1241.0	1261.4	1287.3	1306.0	1310.4
42.5°	1210.7	1241.0	1245.4	1262.3	1266.8
45°	1136.7	1160.8	1173.2	1207.1	1213.3
47.5°	1093.1	1096.6	1118.9	1151.0	1155.4
50°	1030.7	1054.8	1077.0	1091.3	1097.5
52.5°	967.5	994.2	1012.0	1025.4	1037.8
55°	903.3	931.8	939.8	963.9	971.9
57.5°	843.6	852.5	878.4	901.5	915.8
60°	760.8	791.1	809.8	852.5	847.2
62.5°	694.0	714.5	749.2	770.6	767.9
65°	618.2	642.3	672.6	702.0	714.5
67.5°	546.1	578.2	600.4	638.7	647.6
70°	473.0	488.2	529.2	566.6	579.1
72.5°	394.6	418.7	454.3	495.3	510.5
75°	316.3	351.0	391.1	431.2	446.3
77.5°	242.3	272.6	318.0	364.4	379.5
80°	174.6	202.2	255.7	298.4	317.1
82.5°	102.4	139.9	192.4	239.6	253.9
85°	49.0	85.5	135.4	165.7	177.3
87.5°	13.4	38.3	59.7	77.5	80.2
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	17.93	19.60	18.29	19.91	20.23	18.36	20.03	18.72	20.34	20.66
	3H	19.74	21.25	20.11	21.58	21.94	20.44	21.96	20.82	22.29	22.65
	4H	20.37	21.80	20.77	22.15	22.53	21.33	22.76	21.72	23.10	23.48
	6H	20.79	22.12	21.20	22.48	22.87	22.11	23.44	22.52	23.80	24.19
	8H	20.89	22.16	21.31	22.55	22.94	22.45	23.72	22.87	24.11	24.51
	12H	20.93	22.14	21.36	22.53	22.95	22.74	23.95	23.16	24.33	24.76
4H	2H	18.66	20.09	19.06	20.44	20.81	18.99	20.42	19.39	20.77	21.15
	3H	20.69	21.89	21.10	22.29	22.69	21.31	22.51	21.72	22.91	23.31
	4H	21.46	22.56	21.89	22.97	23.40	22.35	23.44	22.78	23.85	24.29
	6H	22.00	22.96	22.45	23.40	23.85	23.30	24.26	23.75	24.70	25.15
	8H	22.14	23.04	22.60	23.48	23.95	23.72	24.62	24.18	25.06	25.52
	12H	22.22	23.03	22.69	23.50	23.97	24.09	24.90	24.56	25.37	25.84
8H	4H	21.90	22.80	22.35	23.24	23.70	22.67	23.57	23.13	24.01	24.47
	6H	22.58	23.33	23.07	23.81	24.29	23.78	24.54	24.28	25.02	25.50
	8H	22.79	23.46	23.30	23.97	24.45	24.32	25.00	24.83	25.50	25.99
	12H	22.93	23.52	23.43	24.01	24.57	24.83	25.42	25.33	25.91	26.47
12H	4H	21.98	22.79	22.46	23.26	23.73	22.70	23.51	23.18	23.99	24.45
	6H	22.70	23.38	23.21	23.89	24.37	23.85	24.52	24.35	25.03	25.51
	8H	22.99	23.59	23.50	24.08	24.64	24.46	25.06	24.97	25.55	26.11