

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: P1584699

Luminaire Tested: 14CZSP-A-54VHE-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584699
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-A-54VHE-L845
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 5200 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

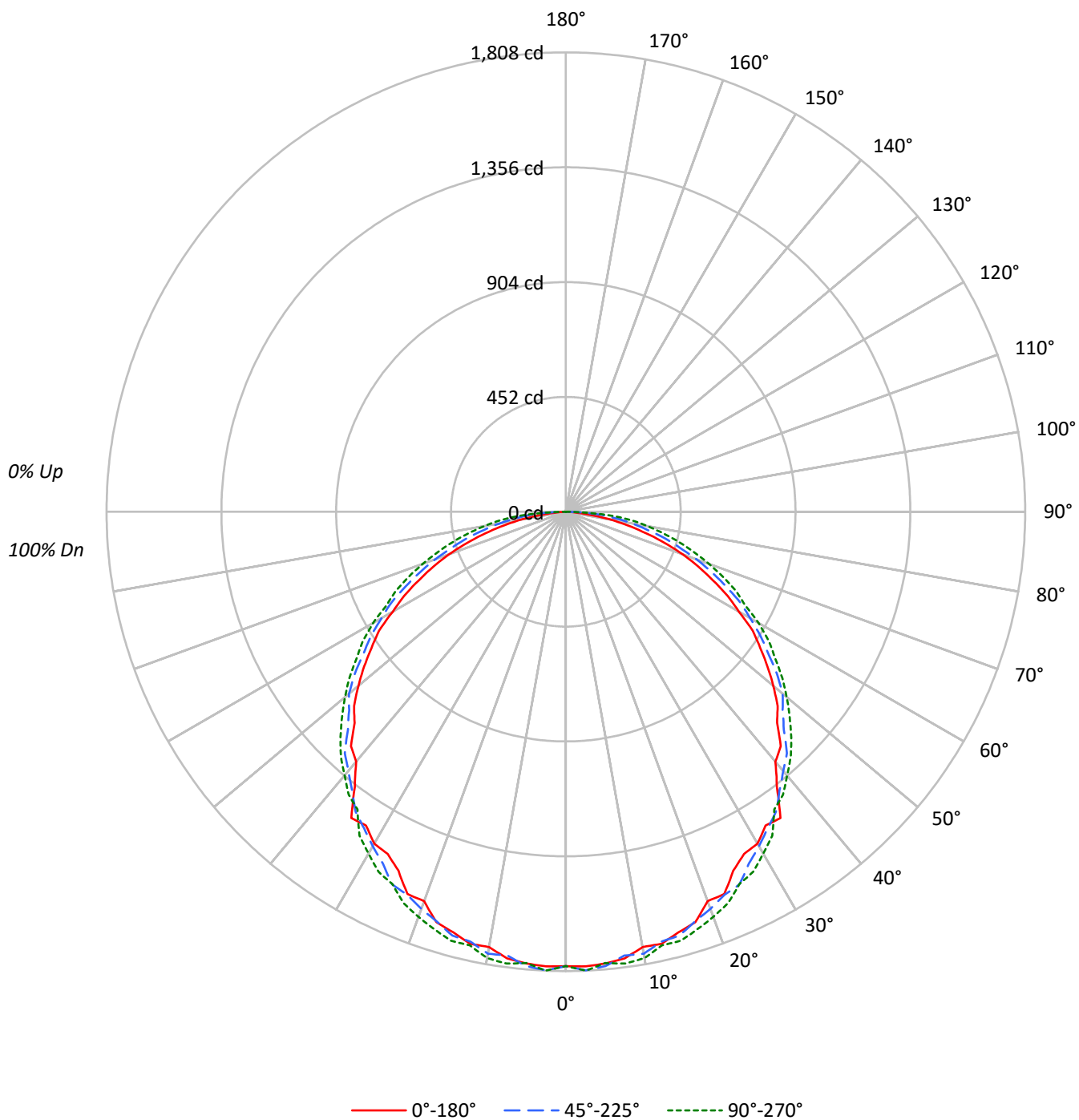
Lumens per Lamp: N/A
Luminaire Lumens: 5360.0 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	6025	6025	6025
5°	6036	6070	6030
10°	5951	6043	6103
15°	5978	6023	6097
20°	5847	5963	6085
25°	5795	6015	6011
30°	5868	5914	6044
35°	6056	5931	5881
40°	5645	5856	5961
45°	5602	5782	5980
50°	5588	5839	5950
55°	5488	5710	5905
60°	5302	5643	5904
65°	5098	5546	5891
70°	4820	5391	5899
75°	4259	5265	6010
80°	3504	5131	6365
85°	1960	5413	7087

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 7087 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.5	3.2
10°-20°	486.5	9.1
20°-30°	739.3	13.8
30°-40°	899.1	16.8
40°-50°	943.7	17.6
50°-60°	872.8	16.3
60°-70°	687.6	12.8
70°-80°	422.7	7.9
80°-90°	138.8	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°	1395.3	26.0
0°-40°	2294.3	42.8
0°-60°	4110.9	76.7
0°-90°	5360.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5360.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1788	1788	1788	1788	1788	
5°	1784	1753	1795	1779	1783	169
15°	1714	1709	1726	1750	1748	483
25°	1559	1587	1618	1613	1617	724
35°	1472	1420	1442	1464	1430	892
45°	1176	1200	1213	1248	1255	914
55°	934	964	972	997	1005	835
65°	639	664	696	726	739	633
75°	327	363	404	446	462	348
85°	51	88	140	171	183	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1788.2	1788.2	1788.2	1788.2	1788.2
2.5°	1791.0	1793.7	1806.6	1778.1	1807.5
5°	1784.5	1753.2	1794.6	1779.0	1782.7
7.5°	1772.5	1776.2	1761.5	1770.7	1793.7
10°	1739.4	1762.4	1766.1	1769.8	1783.6
12.5°	1741.2	1726.5	1732.9	1759.6	1747.7
15°	1713.6	1709.0	1726.5	1749.5	1747.7
17.5°	1694.2	1684.1	1690.5	1701.6	1722.8
20°	1630.6	1657.4	1662.9	1697.0	1697.0
22.5°	1628.8	1627.9	1631.6	1649.1	1667.5
25°	1558.8	1587.4	1617.8	1613.1	1616.8
27.5°	1518.3	1550.5	1560.6	1592.0	1597.5
30°	1508.1	1513.6	1520.1	1554.2	1553.3
32.5°	1463.9	1473.1	1477.7	1497.1	1511.8
35°	1472.2	1419.7	1441.8	1463.9	1429.8
37.5°	1364.4	1372.7	1381.9	1398.5	1404.0
40°	1283.3	1304.5	1331.2	1350.6	1355.2
42.5°	1252.0	1283.3	1287.9	1305.4	1310.0
45°	1175.5	1200.4	1213.3	1248.3	1254.8
47.5°	1130.4	1134.1	1157.1	1190.3	1194.9
50°	1065.9	1090.8	1113.8	1128.6	1135.0
52.5°	1000.5	1028.1	1046.6	1060.4	1073.3
55°	934.2	963.6	971.9	996.8	1005.1
57.5°	872.4	881.7	908.4	932.3	947.1
60°	786.8	818.1	837.4	881.7	876.1
62.5°	717.7	738.9	774.8	796.9	794.1
65°	639.4	664.2	695.6	726.0	738.9
67.5°	564.7	597.9	620.9	660.6	669.8
70°	489.2	504.9	547.2	585.9	598.8
72.5°	408.1	433.0	469.8	512.2	527.9
75°	327.1	363.0	404.4	445.9	461.6
77.5°	250.6	281.9	328.9	376.8	392.5
80°	180.6	209.1	264.4	308.6	328.0
82.5°	105.9	144.6	199.0	247.8	262.6
85°	50.7	88.4	140.0	171.4	183.3
87.5°	13.8	39.6	61.7	80.2	82.9
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	18.05	19.72	18.41	20.03	20.34	18.48	20.15	18.84	20.46	20.77
	3H	19.85	21.37	20.23	21.69	22.05	20.56	22.08	20.94	22.40	22.76
	4H	20.49	21.92	20.89	22.27	22.64	21.44	22.87	21.84	23.22	23.59
	6H	20.91	22.23	21.32	22.60	22.99	22.23	23.56	22.64	23.92	24.31
	8H	21.00	22.27	21.43	22.66	23.06	22.57	23.84	22.99	24.22	24.62
	12H	21.04	22.26	21.47	22.64	23.07	22.85	24.07	23.28	24.45	24.88
4H	2H	18.78	20.21	19.17	20.55	20.93	19.11	20.54	19.51	20.89	21.26
	3H	20.80	22.01	21.21	22.41	22.80	21.43	22.63	21.83	23.03	23.43
	4H	21.58	22.67	22.01	23.09	23.52	22.46	23.56	22.90	23.97	24.41
	6H	22.12	23.08	22.57	23.52	23.97	23.42	24.38	23.87	24.82	25.27
	8H	22.26	23.16	22.72	23.60	24.06	23.84	24.73	24.29	25.18	25.64
	12H	22.33	23.14	22.81	23.62	24.08	24.20	25.01	24.68	25.49	25.95
8H	4H	22.01	22.91	22.47	23.35	23.82	22.79	23.69	23.24	24.13	24.59
	6H	22.69	23.44	23.18	23.93	24.40	23.90	24.65	24.39	25.14	25.61
	8H	22.91	23.58	23.41	24.08	24.57	24.44	25.12	24.95	25.62	26.11
	12H	23.04	23.64	23.55	24.13	24.69	24.94	25.54	25.45	26.03	26.59
12H	4H	22.10	22.91	22.57	23.38	23.85	22.82	23.63	23.30	24.10	24.57
	6H	22.82	23.50	23.33	24.00	24.49	23.96	24.64	24.47	25.14	25.63
	8H	23.11	23.71	23.61	24.20	24.76	24.58	25.18	25.08	25.67	26.22