

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: P1584695

Luminaire Tested: 14CZSP-A-54VHE-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584695
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-L835
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 5200 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

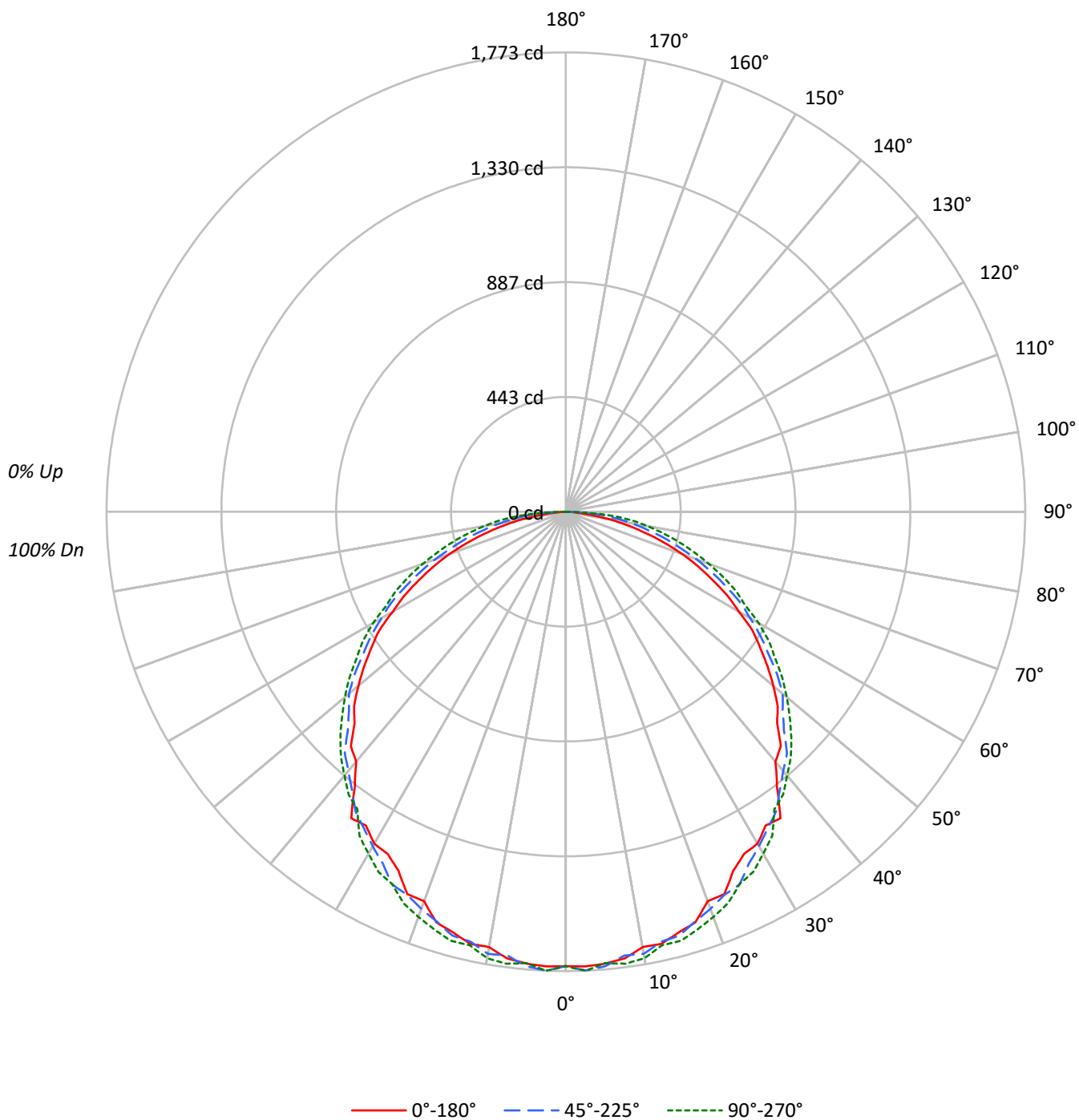
Lumens per Lamp: N/A
Luminaire Lumens: 5257.0 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
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°	5910	5910	5910
5°	5920	5953	5914
10°	5837	5926	5985
15°	5863	5907	5980
20°	5735	5848	5968
25°	5684	5899	5896
30°	5755	5801	5927
35°	5939	5817	5768
40°	5537	5743	5846
45°	5494	5671	5865
50°	5480	5727	5836
55°	5382	5600	5791
60°	5200	5535	5791
65°	5000	5439	5778
70°	4727	5288	5786
75°	4177	5165	5894
80°	3437	5032	6242
85°	1921	5308	6951

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 6951 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.2	3.2
10°-20°	477.1	9.1
20°-30°	725.1	13.8
30°-40°	881.8	16.8
40°-50°	925.6	17.6
50°-60°	856.1	16.3
60°-70°	674.4	12.8
70°-80°	414.5	7.9
80°-90°	136.1	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°	1368.5	26.0
0°-40°	2250.3	42.8
0°-60°	4031.9	76.7
0°-90°	5257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5257.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1754	1754	1754	1754	1754	
5°	1750	1720	1760	1745	1748	166
15°	1681	1676	1693	1716	1714	474
25°	1529	1557	1587	1582	1586	710
35°	1444	1392	1414	1436	1402	875
45°	1153	1177	1190	1224	1231	896
55°	916	945	953	978	986	819
65°	627	652	682	712	725	621
75°	321	356	397	437	453	341
85°	50	87	137	168	180	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1753.8	1753.8	1753.8	1753.8	1753.8
2.5°	1756.5	1759.2	1771.9	1743.9	1772.8
5°	1750.2	1719.5	1760.1	1744.8	1748.4
7.5°	1738.5	1742.1	1727.6	1736.7	1759.2
10°	1705.9	1728.5	1732.1	1735.8	1749.3
12.5°	1707.7	1693.3	1699.6	1725.8	1714.1
15°	1680.6	1676.1	1693.3	1715.9	1714.1
17.5°	1661.7	1651.7	1658.0	1668.9	1689.7
20°	1599.3	1625.5	1630.9	1664.4	1664.4
22.5°	1597.5	1596.6	1600.2	1617.4	1635.5
25°	1528.8	1556.8	1586.7	1582.1	1585.8
27.5°	1489.1	1520.7	1530.6	1561.4	1566.8
30°	1479.1	1484.6	1490.9	1524.3	1523.4
32.5°	1435.8	1444.8	1449.3	1468.3	1482.8
35°	1443.9	1392.4	1414.1	1435.8	1402.3
37.5°	1338.2	1346.3	1355.4	1371.6	1377.0
40°	1258.7	1279.5	1305.7	1324.6	1329.1
42.5°	1227.9	1258.7	1263.2	1280.4	1284.9
45°	1153.0	1177.3	1190.0	1224.3	1230.7
47.5°	1108.7	1112.3	1134.9	1167.4	1171.9
50°	1045.4	1069.8	1092.4	1106.9	1113.2
52.5°	981.3	1008.4	1026.5	1040.0	1052.7
55°	916.2	945.1	953.3	977.7	985.8
57.5°	855.7	864.7	890.9	914.4	928.9
60°	771.6	802.4	821.3	864.7	859.3
62.5°	703.9	724.7	759.9	781.6	778.9
65°	627.1	651.5	682.2	712.0	724.7
67.5°	553.9	586.4	609.0	647.9	656.9
70°	479.8	495.2	536.7	574.7	587.3
72.5°	400.3	424.7	460.8	502.4	517.7
75°	320.8	356.0	396.7	437.3	452.7
77.5°	245.8	276.5	322.6	369.6	384.9
80°	177.1	205.1	259.3	302.7	321.7
82.5°	103.9	141.9	195.2	243.1	257.5
85°	49.7	86.7	137.3	168.1	179.8
87.5°	13.6	38.9	60.5	78.6	81.3
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	17.98	19.65	18.34	19.96	20.28	18.41	20.08	18.77	20.39	20.71
	3H	19.79	21.30	20.16	21.63	21.99	20.49	22.01	20.87	22.33	22.69
	4H	20.42	21.85	20.82	22.20	22.57	21.37	22.80	21.77	23.15	23.53
	6H	20.84	22.17	21.25	22.53	22.92	22.16	23.49	22.57	23.85	24.24
	8H	20.94	22.21	21.36	22.59	22.99	22.50	23.77	22.92	24.16	24.56
	12H	20.98	22.19	21.40	22.58	23.00	22.78	24.00	23.21	24.38	24.81
4H	2H	18.71	20.14	19.11	20.49	20.86	19.04	20.47	19.44	20.82	21.20
	3H	20.74	21.94	21.14	22.34	22.74	21.36	22.56	21.77	22.96	23.36
	4H	21.51	22.61	21.94	23.02	23.45	22.40	23.49	22.83	23.90	24.34
	6H	22.05	23.01	22.50	23.45	23.90	23.35	24.31	23.80	24.75	25.20
	8H	22.19	23.09	22.65	23.53	24.00	23.77	24.67	24.23	25.11	25.57
	12H	22.26	23.08	22.74	23.55	24.02	24.13	24.95	24.61	25.42	25.89
8H	4H	21.95	22.84	22.40	23.29	23.75	22.72	23.62	23.18	24.06	24.52
	6H	22.62	23.38	23.12	23.86	24.34	23.83	24.59	24.33	25.07	25.55
	8H	22.84	23.51	23.34	24.02	24.50	24.37	25.05	24.88	25.55	26.04
	12H	22.97	23.57	23.48	24.06	24.62	24.88	25.47	25.38	25.96	26.52
12H	4H	22.03	22.84	22.51	23.31	23.78	22.75	23.56	23.23	24.03	24.50
	6H	22.75	23.43	23.26	23.94	24.42	23.90	24.57	24.40	25.08	25.56
	8H	23.04	23.64	23.55	24.13	24.69	24.51	25.11	25.02	25.60	26.16