

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1438656

Luminaire Tested: CB2-055U-055D-830-1D-UNV-STD-W-8

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438656  
REPORT IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2506-466-1, G2-2312-242-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/31/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB2-055U-055D-830-1D-UNV-STD-W-8  
Description: CORELITE BASIC SLOT LED LUMINAIRE, OPEN UPLIGHT  
2-INCH APERTURE  
DOWNLIGHT 550 LUMENS PER FOOT  
UPLIGHT 550 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

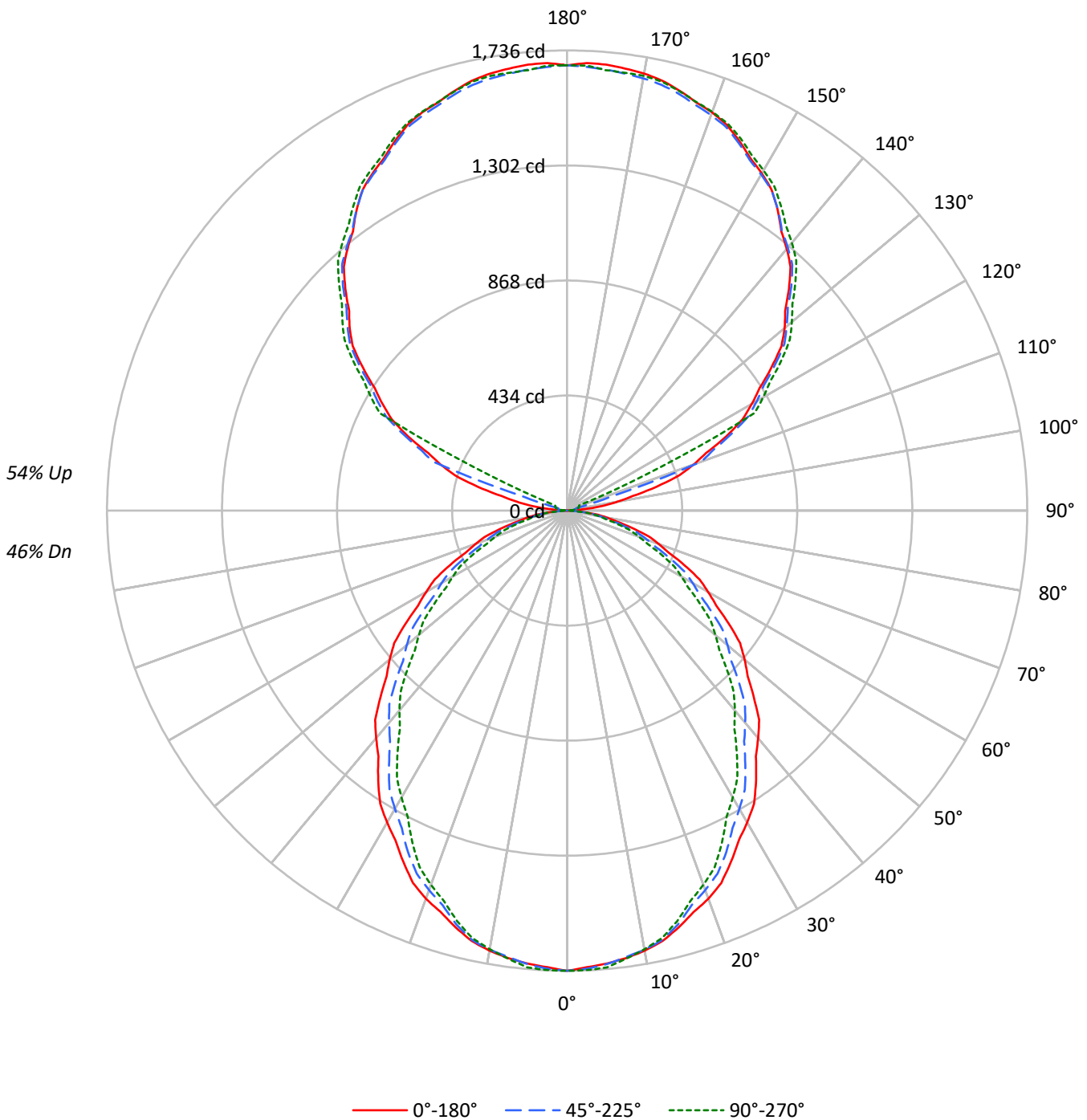
Lumens per Lamp: N/A  
Luminaire Lumens: 8839.5 lumens  
Efficiency: N/A  
Efficacy: 118.5 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 74.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46
1	97	93	89	86	89	85	82	79	71	69	67	58	57	55	46	45	44	39
2	88	81	75	70	81	75	70	65	63	59	56	51	49	46	41	39	38	33
3	81	72	64	59	74	66	60	55	55	51	47	46	42	39	37	34	32	28
4	74	63	56	50	68	58	52	46	49	44	40	41	37	34	33	30	28	24
5	68	57	49	43	62	52	45	40	44	39	35	37	33	29	30	27	24	21
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19
7	58	46	38	33	53	42	36	31	36	31	27	30	26	23	25	22	19	17
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	17	15
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	16	14
10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	19	16	14	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15120	15120	15120
5°	14992	15015	15120
10°	14907	14871	14860
15°	14671	14575	14455
20°	14440	14119	13923
25°	14052	13656	13273
30°	13663	13062	12567
35°	13215	12451	11858
40°	12741	11879	11184
45°	12263	11281	10528
50°	11833	10699	9889
55°	11304	10092	9284
60°	10698	9517	8683
65°	10054	8875	8082
70°	9342	8158	7313
75°	8499	7382	6622
80°	7603	6470	5998
85°	5845	5316	4387

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12263 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.3	1.8
10°-20°	455.1	5.1
20°-30°	654.4	7.4
30°-40°	735.5	8.3
40°-50°	710.5	8.0
50°-60°	600.3	6.8
60°-70°	431.2	4.9
70°-80°	235.7	2.7
80°-90°	62.7	0.7
90°-100°	29.3	0.3
100°-110°	186.4	2.1
110°-120°	592.1	6.7
120°-130°	859.2	9.7
130°-140°	924.1	10.5
140°-150°	870.0	9.8
150°-160°	708.8	8.0
160°-170°	461.3	5.2
170°-180°	159.5	1.8
0°-30°	1272.8	14.4
0°-40°	2008.4	22.7
0°-60°	3319.2	37.5
0°-90°	4048.8	45.8
90°-120°	807.7	9.1
90°-150°	3461.1	39.2
90°-180°	4791.0	54.2
0°-180°	8839.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1736	1736	1736	1736	1736	
5°	1715	1738	1718	1718	1730	163
15°	1627	1642	1617	1601	1603	459
25°	1462	1464	1421	1389	1381	673
35°	1243	1229	1171	1126	1115	776
45°	996	975	916	868	855	769
55°	744	717	665	623	612	666
65°	488	470	431	400	392	484
75°	253	237	219	202	197	270
85°	58	55	53	46	44	70
90°	0	0	0	1	1	5
95°	67	19	21	13	12	85
105°	350	363	36	43	45	369
115°	662	676	683	691	396	651
125°	940	957	957	973	986	841
135°	1183	1198	1195	1203	1218	913
145°	1385	1396	1386	1388	1406	866
155°	1538	1548	1531	1528	1549	709
165°	1640	1645	1628	1621	1638	463
175°	1689	1692	1670	1660	1668	161
180°	1680	1680	1680	1680	1680	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1736.2	1736.2	1736.2	1736.2	1736.2
2.5°	1724.5	1745.3	1729.9	1732.1	1735.2
5°	1715.0	1738.4	1717.6	1717.9	1729.6
7.5°	1702.7	1724.8	1698.7	1693.9	1704.9
10°	1685.7	1707.8	1681.7	1672.6	1680.4
12.5°	1663.4	1684.4	1659.4	1644.9	1651.7
15°	1627.2	1641.5	1616.6	1600.7	1603.3
17.5°	1587.9	1596.7	1560.8	1547.4	1544.8
20°	1558.1	1565.9	1523.5	1504.9	1502.3
22.5°	1519.8	1526.6	1482.1	1459.1	1455.5
25°	1462.4	1463.7	1421.2	1389.1	1381.3
27.5°	1402.3	1398.1	1351.0	1313.0	1302.8
30°	1358.7	1353.5	1298.9	1258.8	1249.7
32.5°	1311.9	1302.5	1247.8	1204.5	1195.4
35°	1243.0	1228.7	1171.2	1125.8	1115.4
37.5°	1169.6	1153.5	1097.0	1047.6	1035.9
40°	1120.7	1102.5	1044.9	995.5	983.8
42.5°	1071.8	1051.5	992.8	943.3	930.6
45°	995.7	974.9	916.0	867.8	854.8
47.5°	923.4	896.9	839.7	791.8	778.8
50°	873.4	844.8	789.7	742.9	729.9
52.5°	822.4	792.7	739.7	695.0	682.0
55°	744.5	717.2	664.7	623.2	611.5
57.5°	667.4	641.1	593.2	553.6	542.1
60°	614.2	592.1	546.4	508.9	498.5
62.5°	563.1	543.1	499.6	465.3	454.9
65°	487.9	469.7	430.7	400.0	392.2
67.5°	414.8	396.6	365.1	337.5	328.6
70°	366.9	348.7	320.4	295.0	287.2
72.5°	321.2	302.0	278.9	255.7	249.9
75°	252.6	237.0	219.4	202.0	196.8
77.5°	192.0	176.9	164.1	151.8	150.5
80°	151.6	138.6	129.0	120.9	119.6
82.5°	113.3	103.4	97.0	91.2	90.9
85°	58.5	54.6	53.2	46.5	43.9
87.5°	17.0	17.0	14.9	13.0	13.0
90°	0.0	0.0	0.0	1.2	1.2
92.5°	18.5	7.1	4.9	7.0	7.0
95°	66.8	19.3	20.7	13.3	12.1
97.5°	138.7	31.1	29.9	32.8	34.0
100°	193.2	63.7	32.8	37.7	38.9
102.5°	253.4	239.9	33.8	40.6	42.8
105°	349.9	362.9	36.4	42.6	44.9
107.5°	444.6	457.7	169.6	44.0	46.4
110°	507.8	520.9	537.0	45.0	47.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	567.1	583.0	595.3	100.2	49.3
115°	662.1	676.4	682.8	690.6	396.0
117.5°	745.9	763.5	770.7	784.4	797.7
120°	804.2	820.9	826.1	839.8	854.0
122.5°	861.6	876.3	879.6	895.2	908.5
125°	940.3	956.9	957.3	973.4	986.5
127.5°	1019.0	1033.3	1032.6	1044.6	1059.1
130°	1071.5	1081.0	1081.2	1091.3	1106.7
132.5°	1115.2	1128.5	1128.8	1137.0	1152.4
135°	1183.3	1197.5	1195.4	1203.1	1218.5
137.5°	1247.2	1261.0	1257.1	1263.6	1279.5
140°	1289.0	1300.8	1295.0	1301.5	1319.3
142.5°	1327.8	1339.7	1331.0	1336.5	1355.3
145°	1384.9	1395.6	1386.2	1387.8	1405.6
147.5°	1435.7	1446.2	1434.7	1436.3	1453.0
150°	1468.8	1478.3	1463.9	1465.5	1482.1
152.5°	1497.9	1506.5	1491.1	1490.8	1510.3
155°	1538.0	1547.5	1530.7	1527.6	1548.9
157.5°	1574.5	1583.2	1566.4	1564.1	1580.8
160°	1598.8	1604.7	1587.8	1584.6	1601.2
162.5°	1615.3	1622.2	1605.3	1600.1	1616.7
165°	1640.1	1644.8	1627.9	1621.0	1637.6
167.5°	1661.4	1666.9	1645.2	1639.0	1656.8
170°	1674.1	1677.6	1655.9	1647.8	1665.6
172.5°	1681.8	1684.5	1662.7	1653.5	1665.6
175°	1688.7	1692.2	1670.4	1659.7	1668.0
177.5°	1689.9	1691.8	1675.3	1665.9	1680.1
180°	1680.1	1680.1	1680.1	1680.1	1680.1

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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	16.03	16.85	17.03	17.85	19.18	14.94	15.75	15.93	16.75	18.09
	3H	17.68	18.41	18.68	19.42	20.77	16.46	17.19	17.46	18.20	19.55
	4H	18.30	18.99	19.32	20.01	21.37	17.03	17.72	18.05	18.74	20.10
	6H	18.70	19.34	19.73	20.36	21.73	17.40	18.04	18.43	19.06	20.43
	8H	18.85	19.46	19.88	20.49	21.86	17.54	18.14	18.57	19.18	20.55
	12H	18.92	19.50	19.96	20.53	21.92	17.60	18.18	18.64	19.21	20.60
4H	2H	16.44	17.13	17.46	18.15	19.51	15.56	16.25	16.59	17.27	18.63
	3H	18.30	18.88	19.34	19.92	21.30	17.30	17.87	18.33	18.92	20.29
	4H	19.05	19.57	20.09	20.61	22.01	17.97	18.49	19.01	19.53	20.93
	6H	19.57	20.02	20.62	21.08	22.47	18.44	18.89	19.49	19.95	21.34
	8H	19.77	20.19	20.82	21.24	22.65	18.63	19.05	19.68	20.10	21.51
	12H	19.87	20.26	20.94	21.32	22.73	18.71	19.10	19.78	20.16	21.58
8H	4H	19.20	19.62	20.25	20.68	22.08	18.24	18.66	19.29	19.71	21.12
	6H	19.84	20.19	20.91	21.29	22.69	18.84	19.19	19.91	20.28	21.69
	8H	20.13	20.44	21.21	21.52	22.94	19.11	19.42	20.20	20.50	21.92
	12H	20.30	20.57	21.39	21.65	23.11	19.26	19.53	20.35	20.61	22.07
12H	4H	19.18	19.56	20.25	20.63	22.04	18.24	18.62	19.31	19.69	21.10
	6H	19.87	20.18	20.95	21.25	22.68	18.90	19.21	19.98	20.29	21.71
	8H	20.18	20.45	21.27	21.53	22.99	19.21	19.48	20.29	20.55	22.01