

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: P1439232

Luminaire Tested: CB3-085U-055D-830-1D-UNV-STD-W-8

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1439232  
REPORT IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2506-466-2, G2-2312-242-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/31/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB3-085U-055D-830-1D-UNV-STD-W-8  
Description: CORELITE BASIC SLOT LED LUMINAIRE, OPEN UPLIGHT  
3-INCH APERTURE  
DOWNLIGHT 550 LUMENS PER FOOT  
UPLIGHT 850 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

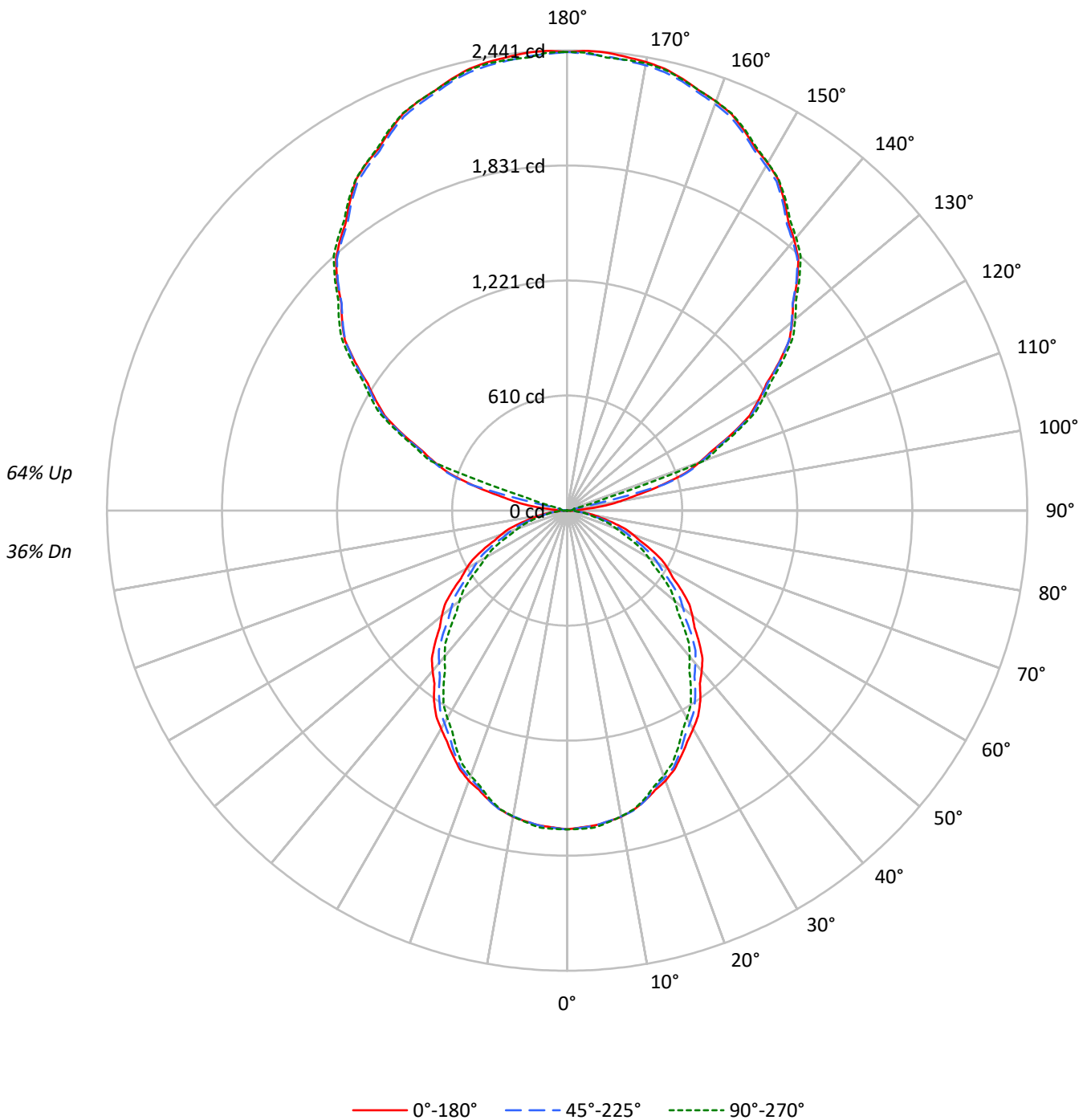
Lumens per Lamp: N/A  
Luminaire Lumens: 11227.6 lumens  
Efficiency: N/A  
Efficacy: 126.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26  
Luminous Opening: Rectangular (W 0.24' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 89.1  
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43	36
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	38	38	37	31
2	86	79	73	68	78	72	67	63	58	55	52	46	43	41	34	33	31	26
3	79	70	63	57	71	63	57	52	51	47	44	40	37	35	30	28	27	22
4	72	62	54	48	65	56	50	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	25	27	23	20	20	18	16	13
8	52	40	33	28	47	37	30	26	30	25	22	24	21	18	19	16	14	12
9	49	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	34	27	22	41	31	25	20	26	21	17	21	17	15	16	13	12	10

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

	0°	45°	90°
0°	9566	9566	9566
5°	9521	9528	9583
10°	9479	9465	9465
15°	9334	9334	9278
20°	9182	9088	9009
25°	8951	8838	8681
30°	8732	8505	8300
35°	8502	8187	7896
40°	8195	7805	7468
45°	7917	7466	7005
50°	7631	7061	6553
55°	7320	6668	6124
60°	6984	6264	5639
65°	6591	5804	5128
70°	6138	5265	4569
75°	5565	4621	4070
80°	4851	3874	3600
85°	3739	3271	3271

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7917 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.5	1.4
10°-20°	448.2	4.0
20°-30°	651.2	5.8
30°-40°	740.4	6.6
40°-50°	718.8	6.4
50°-60°	606.8	5.4
60°-70°	431.8	3.8
70°-80°	230.7	2.1
80°-90°	61.0	0.5
90°-100°	56.2	0.5
100°-110°	406.8	3.6
110°-120°	967.2	8.6
120°-130°	1235.7	11.0
130°-140°	1332.9	11.9
140°-150°	1256.5	11.2
150°-160°	1025.0	9.1
160°-170°	667.9	5.9
170°-180°	230.9	2.1
0°-30°	1259.0	11.2
0°-40°	1999.4	17.8
0°-60°	3325.0	29.6
0°-90°	4048.5	36.1
90°-120°	1430.2	12.7
90°-150°	5255.3	46.8
90°-180°	7179.0	63.9
0°-180°	11227.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1691	1691	1691	1691	1691	
5°	1677	1698	1678	1676	1687	159
15°	1594	1608	1594	1584	1584	449
25°	1434	1439	1416	1397	1391	661
35°	1231	1219	1185	1150	1143	767
45°	990	974	933	888	876	763
55°	742	722	676	633	621	664
65°	492	475	434	395	383	488
75°	255	240	211	190	186	271
85°	58	53	50	50	50	68
90°	0	0	0	2	0	6
95°	103	18	24	26	26	127
105°	515	522	530	38	40	543
115°	966	973	975	990	995	953
125°	1373	1382	1378	1393	1402	1225
135°	1725	1734	1720	1733	1743	1328
145°	2007	2020	1994	2008	2018	1256
155°	2224	2242	2211	2217	2231	1025
165°	2370	2383	2357	2350	2367	669
175°	2438	2451	2418	2405	2412	232
180°	2433	2433	2433	2433	2433	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1691.0	1691.0	1691.0	1691.0	1691.0
2.5°	1682.3	1699.2	1684.2	1686.3	1690.0
5°	1676.6	1697.7	1677.8	1675.6	1687.4
7.5°	1663.6	1682.8	1662.1	1657.3	1667.9
10°	1650.1	1671.3	1647.7	1641.9	1647.7
12.5°	1626.1	1648.2	1629.5	1619.7	1624.7
15°	1593.7	1607.8	1593.7	1584.1	1584.1
17.5°	1554.1	1568.9	1542.3	1535.5	1532.9
20°	1525.2	1538.2	1509.6	1499.9	1496.4
22.5°	1486.8	1498.8	1475.0	1458.6	1454.1
25°	1434.0	1438.7	1415.9	1396.6	1390.7
27.5°	1380.9	1382.1	1350.9	1327.4	1319.6
30°	1336.7	1337.9	1301.9	1276.5	1270.6
32.5°	1292.5	1289.0	1254.8	1224.7	1220.7
35°	1231.0	1219.3	1185.4	1150.4	1143.3
37.5°	1156.8	1149.7	1109.7	1074.6	1064.1
40°	1109.7	1098.0	1056.9	1021.8	1011.2
42.5°	1062.6	1049.0	1006.9	968.0	956.5
45°	989.6	974.3	933.2	888.4	875.5
47.5°	916.1	899.4	854.1	810.8	796.5
50°	867.1	849.5	802.3	759.9	744.6
52.5°	817.1	798.6	751.3	708.1	695.6
55°	742.2	722.2	676.1	632.6	620.9
57.5°	667.3	647.5	601.7	560.5	546.4
60°	617.3	598.5	553.6	512.5	498.4
62.5°	566.4	548.5	504.6	464.5	451.3
65°	492.4	474.8	433.6	394.9	383.1
67.5°	419.1	404.1	363.4	327.9	318.5
70°	371.1	357.0	318.3	285.6	276.2
72.5°	325.0	310.0	273.1	245.3	238.8
75°	254.6	240.5	211.4	189.7	186.2
77.5°	190.2	178.7	153.5	141.2	139.3
80°	148.9	138.4	118.9	110.5	110.5
82.5°	110.5	101.8	89.1	85.5	85.5
85°	57.6	52.9	50.4	50.4	50.4
87.5°	17.3	17.3	16.3	15.7	15.4
90°	0.0	0.0	0.0	1.8	0.0
92.5°	27.9	10.7	8.8	10.6	10.3
95°	102.7	18.4	23.8	25.7	25.7
97.5°	206.8	202.8	27.9	33.4	33.7
100°	286.0	294.9	29.3	34.9	36.7
102.5°	374.0	381.5	54.3	36.3	38.1
105°	515.1	522.3	529.8	38.5	40.3
107.5°	655.5	660.9	665.8	599.3	224.4
110°	747.9	753.3	755.3	773.7	777.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	834.4	841.3	844.7	860.3	866.7
115°	966.1	973.2	975.2	990.0	995.4
117.5°	1091.1	1098.6	1102.1	1114.0	1122.6
120°	1173.2	1182.2	1184.2	1199.0	1206.2
122.5°	1253.9	1264.3	1263.4	1276.8	1286.9
125°	1373.0	1382.0	1378.5	1393.4	1402.4
127.5°	1486.3	1491.7	1484.1	1502.2	1509.8
130°	1558.2	1563.5	1554.5	1571.2	1580.2
132.5°	1624.2	1632.4	1622.0	1637.2	1646.2
135°	1725.0	1733.9	1719.5	1732.6	1743.3
137.5°	1814.8	1825.6	1808.2	1823.5	1832.8
140°	1873.5	1884.2	1862.5	1879.2	1890.0
142.5°	1927.7	1941.4	1915.3	1930.6	1942.8
145°	2007.3	2019.8	1994.5	2007.5	2018.3
147.5°	2082.8	2093.6	2069.2	2078.6	2086.1
150°	2128.3	2139.0	2111.8	2121.1	2130.1
152.5°	2164.9	2180.0	2152.8	2159.4	2172.6
155°	2223.6	2241.5	2210.8	2216.6	2230.9
157.5°	2277.5	2293.6	2262.8	2267.9	2280.4
160°	2309.8	2325.9	2295.1	2297.2	2309.8
162.5°	2334.7	2349.4	2323.0	2319.3	2334.7
165°	2370.2	2382.8	2357.4	2350.4	2366.6
167.5°	2399.9	2414.3	2383.1	2377.3	2395.5
170°	2416.1	2430.4	2397.7	2389.0	2408.7
172.5°	2426.3	2439.2	2408.0	2396.3	2411.7
175°	2438.1	2450.6	2417.9	2405.2	2412.4
177.5°	2441.4	2451.4	2425.2	2413.9	2431.1
180°	2432.6	2432.6	2432.6	2432.6	2432.6



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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	13.54	14.29	14.61	15.36	16.81	12.47	13.21	13.54	14.28	15.74
	3H	15.20	15.87	16.28	16.95	18.42	13.87	14.53	14.95	15.61	17.09
	4H	15.83	16.46	16.92	17.54	19.02	14.38	15.01	15.47	16.09	17.58
	6H	16.21	16.79	17.31	17.87	19.36	14.69	15.27	15.79	16.36	17.85
	8H	16.34	16.89	17.44	17.99	19.48	14.81	15.36	15.92	16.46	17.95
	12H	16.40	16.93	17.51	18.02	19.53	14.89	15.41	15.99	16.50	18.01
4H	2H	13.94	14.57	15.04	15.65	17.13	13.08	13.71	14.18	14.79	16.27
	3H	15.82	16.34	16.92	17.45	18.94	14.69	15.21	15.79	16.32	17.81
	4H	16.56	17.04	17.67	18.14	19.66	15.29	15.77	16.40	16.87	18.38
	6H	17.06	17.47	18.17	18.59	20.10	15.69	16.11	16.81	17.23	18.74
	8H	17.24	17.63	18.36	18.74	20.27	15.86	16.25	16.98	17.36	18.88
	12H	17.34	17.69	18.47	18.81	20.34	15.96	16.31	17.09	17.44	18.97
8H	4H	16.68	17.07	17.80	18.18	19.70	15.54	15.93	16.66	17.04	18.56
	6H	17.29	17.61	18.43	18.77	20.29	16.07	16.38	17.20	17.54	19.06
	8H	17.57	17.85	18.71	18.98	20.52	16.32	16.59	17.46	17.73	19.27
	12H	17.73	17.97	18.88	19.10	20.68	16.49	16.73	17.63	17.86	19.44
12H	4H	16.65	17.00	17.78	18.12	19.65	15.54	15.89	16.67	17.01	18.54
	6H	17.31	17.59	18.45	18.72	20.27	16.12	16.40	17.27	17.53	19.08
	8H	17.60	17.85	18.75	18.98	20.56	16.40	16.64	17.55	17.77	19.35