

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: P1438723

Luminaire Tested: CB2-085U-055D-940-1D-UNV-STD-W-4

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438723  
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: CB2-085U-055D-940-1D-UNV-STD-W-4  
Description: CORELITE BASIC SLOT LED LUMINAIRE, OPEN UPLIGHT  
2-INCH APERTURE  
DOWNLIGHT 550 LUMENS PER FOOT  
UPLIGHT 850 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

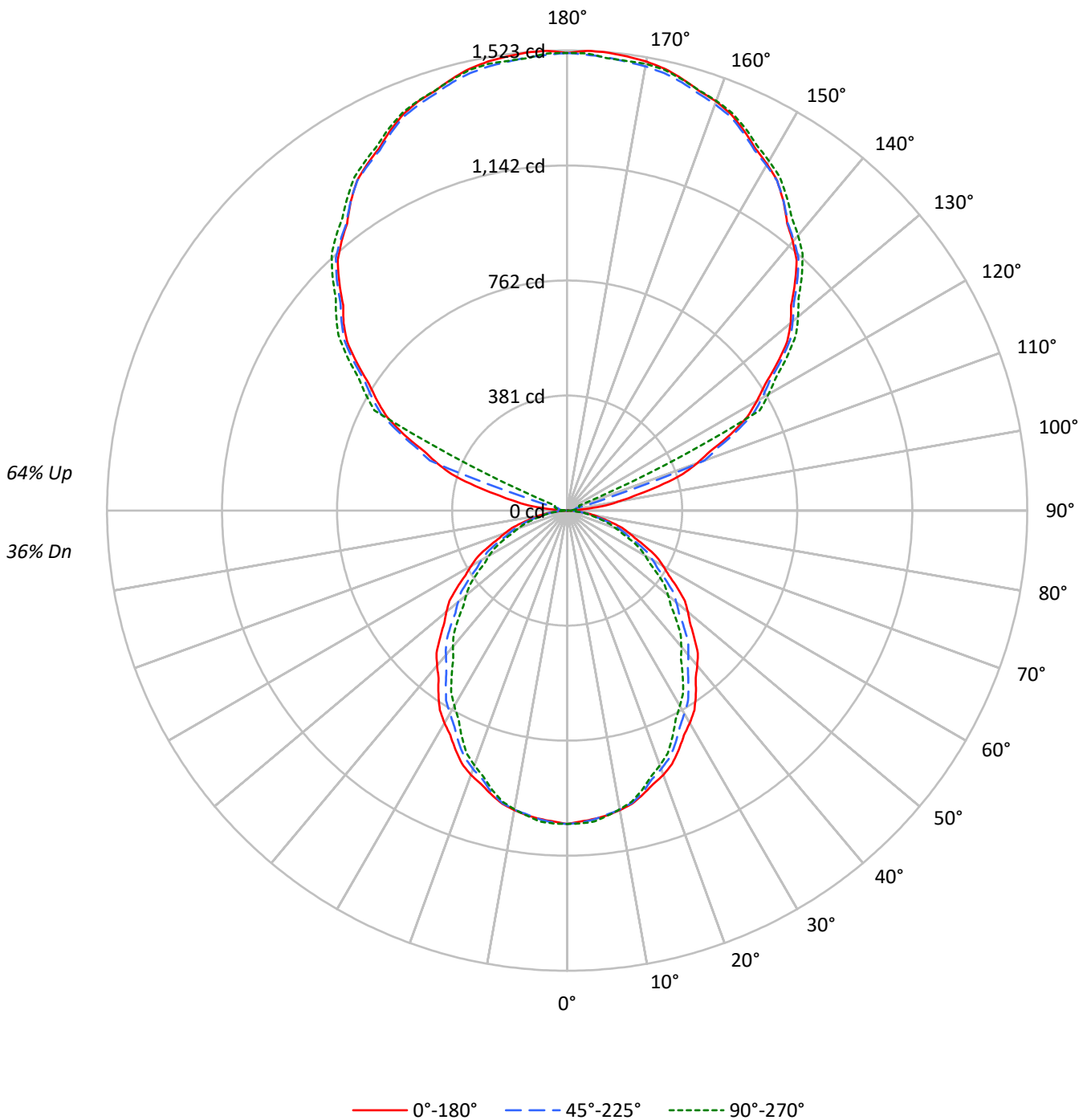
Lumens per Lamp: N/A  
Luminaire Lumens: 6737.0 lumens  
Efficiency: N/A  
Efficacy: 156.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 43  
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	37	37	30
2	86	79	73	68	78	72	67	63	58	55	52	46	43	41	34	32	31	26
3	79	70	63	57	71	63	57	52	51	47	43	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	25	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°	18065	18065	18065
5°	17912	17940	18064
10°	17810	17767	17753
15°	17529	17413	17271
20°	17253	16869	16633
25°	16789	16316	15857
30°	16323	15605	15013
35°	15788	14877	14167
40°	15222	14192	13362
45°	14651	13479	12577
50°	14139	12781	11814
55°	13504	12058	11093
60°	12781	11370	10374
65°	12014	10604	9656
70°	11163	9747	8734
75°	10155	8816	7907
80°	9077	7723	7172
85°	6974	6355	5236

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14651 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.5	1.4
10°-20°	271.9	4.0
20°-30°	390.9	5.8
30°-40°	439.4	6.5
40°-50°	424.5	6.3
50°-60°	358.6	5.3
60°-70°	257.6	3.8
70°-80°	140.8	2.1
80°-90°	37.5	0.6
90°-100°	26.4	0.4
100°-110°	168.0	2.5
110°-120°	533.7	7.9
120°-130°	774.5	11.5
130°-140°	833.0	12.4
140°-150°	784.3	11.6
150°-160°	638.9	9.5
160°-170°	415.8	6.2
170°-180°	143.7	2.1
0°-30°	760.3	11.3
0°-40°	1199.7	17.8
0°-60°	1982.8	29.4
0°-90°	2418.7	35.9
90°-120°	728.1	10.8
90°-150°	3119.8	46.3
90°-180°	4318.0	64.1
0°-180°	6737.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1037	1037	1037	1037	1037	
5°	1024	1038	1026	1026	1033	97
15°	972	981	966	956	958	274
25°	874	874	849	830	825	402
35°	742	734	700	672	666	464
45°	595	582	547	518	511	460
55°	445	428	397	372	365	398
65°	292	281	257	239	234	289
75°	151	142	131	121	118	161
85°	35	33	32	28	26	42
90°	0	0	0	1	1	4
95°	60	17	19	12	11	76
105°	315	327	33	38	40	332
115°	597	610	615	622	357	587
125°	848	863	863	877	889	758
135°	1067	1079	1078	1084	1098	823
145°	1248	1258	1250	1251	1267	780
155°	1386	1395	1380	1377	1396	639
165°	1478	1483	1467	1461	1476	418
175°	1522	1525	1506	1496	1504	145
180°	1514	1514	1514	1514	1514	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1037.2	1037.2	1037.2	1037.2	1037.2
2.5°	1030.2	1042.6	1033.4	1034.7	1036.5
5°	1024.5	1038.4	1026.1	1026.2	1033.2
7.5°	1017.2	1030.4	1014.8	1011.9	1018.4
10°	1007.0	1020.2	1004.6	999.2	1003.8
12.5°	993.7	1006.2	991.3	982.6	986.7
15°	972.1	980.6	965.7	956.2	957.8
17.5°	948.5	953.8	932.3	924.4	922.8
20°	930.8	935.4	910.1	899.0	897.4
22.5°	907.9	911.9	885.3	871.6	869.4
25°	873.6	874.4	849.0	829.8	825.1
27.5°	837.7	835.2	807.0	784.3	778.3
30°	811.6	808.5	775.9	751.9	746.5
32.5°	783.7	778.1	745.4	719.5	714.1
35°	742.5	734.0	699.7	672.5	666.3
37.5°	698.7	689.1	655.3	625.8	618.8
40°	669.5	658.6	624.2	594.7	587.7
42.5°	640.3	628.1	593.1	563.5	555.9
45°	594.8	582.4	547.2	518.4	510.6
47.5°	551.6	535.8	501.6	473.0	465.2
50°	521.8	504.7	471.7	443.8	436.0
52.5°	491.3	473.6	441.9	415.2	407.4
55°	444.7	428.4	397.1	372.3	365.3
57.5°	398.7	383.0	354.4	330.7	323.9
60°	366.9	353.7	326.4	304.0	297.8
62.5°	336.4	324.4	298.4	278.0	271.8
65°	291.5	280.6	257.3	238.9	234.3
67.5°	247.8	236.9	218.1	201.6	196.3
70°	219.2	208.3	191.4	176.2	171.5
72.5°	191.9	180.4	166.6	152.7	149.3
75°	150.9	141.6	131.0	120.6	117.5
77.5°	114.7	105.7	98.0	90.7	89.9
80°	90.5	82.8	77.0	72.3	71.5
82.5°	67.7	61.8	58.0	54.5	54.3
85°	34.9	32.6	31.8	27.8	26.2
87.5°	10.2	10.2	8.9	7.8	7.8
90°	0.0	0.0	0.0	1.1	1.1
92.5°	16.6	6.4	4.4	6.4	6.4
95°	60.2	17.4	18.6	12.0	11.0
97.5°	125.1	28.0	26.9	29.6	30.7
100°	174.1	57.4	29.6	34.0	35.0
102.5°	228.4	216.2	30.4	36.6	38.5
105°	315.4	327.2	32.9	38.4	40.5
107.5°	400.8	412.6	152.9	39.7	41.8
110°	457.7	469.5	484.0	40.6	42.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	511.2	525.5	536.6	90.3	44.5
115°	596.8	609.7	615.4	622.5	357.0
117.5°	672.4	688.2	694.7	707.0	719.0
120°	724.9	739.9	744.6	757.0	769.8
122.5°	776.6	789.9	792.8	806.9	818.9
125°	847.6	862.6	862.9	877.4	889.2
127.5°	918.5	931.4	930.8	941.6	954.7
130°	965.8	974.4	974.6	983.7	997.6
132.5°	1005.3	1017.3	1017.5	1024.9	1038.8
135°	1066.6	1079.4	1077.5	1084.4	1098.3
137.5°	1124.2	1136.6	1133.2	1139.0	1153.3
140°	1161.9	1172.6	1167.3	1173.2	1189.2
142.5°	1196.9	1207.6	1199.7	1204.7	1221.6
145°	1248.4	1258.0	1249.5	1250.9	1267.0
147.5°	1294.1	1303.6	1293.3	1294.7	1309.7
150°	1323.9	1332.5	1319.5	1321.0	1336.0
152.5°	1350.2	1357.9	1344.1	1343.8	1361.4
155°	1386.3	1394.9	1379.8	1376.9	1396.2
157.5°	1419.2	1427.1	1412.0	1409.9	1424.9
160°	1441.1	1446.5	1431.2	1428.3	1443.3
162.5°	1456.0	1462.2	1447.0	1442.3	1457.3
165°	1478.3	1482.6	1467.4	1461.2	1476.1
167.5°	1497.6	1502.5	1482.9	1477.4	1493.4
170°	1509.0	1512.2	1492.6	1485.3	1501.3
172.5°	1516.0	1518.4	1498.7	1490.4	1501.3
175°	1522.1	1525.3	1505.7	1496.0	1503.5
177.5°	1523.2	1524.9	1510.1	1501.6	1514.5
180°	1514.5	1514.5	1514.5	1514.5	1514.5

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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	15.59	16.33	16.66	17.40	18.86	14.49	15.23	15.56	16.30	17.76
	3H	17.22	17.89	18.30	18.97	20.44	16.01	16.67	17.09	17.75	19.23
	4H	17.85	18.47	18.94	19.56	21.04	16.57	17.20	17.66	18.28	19.77
	6H	18.24	18.82	19.34	19.91	21.40	16.94	17.52	18.04	18.60	20.10
	8H	18.39	18.94	19.49	20.04	21.53	17.08	17.63	18.18	18.73	20.22
	12H	18.46	18.98	19.57	20.07	21.59	17.13	17.66	18.24	18.75	20.26
4H	2H	15.98	16.61	17.08	17.69	19.18	15.11	15.73	16.21	16.82	18.30
	3H	17.84	18.36	18.94	19.47	20.97	16.83	17.35	17.94	18.46	19.96
	4H	18.58	19.06	19.69	20.16	21.68	17.50	17.98	18.61	19.08	20.60
	6H	19.09	19.51	20.21	20.63	22.14	17.97	18.38	19.08	19.50	21.01
	8H	19.30	19.68	20.41	20.79	22.32	18.15	18.54	19.27	19.65	21.18
	12H	19.40	19.74	20.53	20.87	22.40	18.24	18.59	19.37	19.71	21.24
8H	4H	18.73	19.11	19.84	20.23	21.75	17.76	18.15	18.88	19.26	20.79
	6H	19.36	19.68	20.50	20.84	22.36	18.36	18.68	19.50	19.84	21.36
	8H	19.65	19.93	20.80	21.07	22.61	18.64	18.91	19.78	20.05	21.59
	12H	19.82	20.07	20.97	21.20	22.78	18.78	19.03	19.93	20.16	21.74
12H	4H	18.70	19.05	19.84	20.18	21.71	17.76	18.11	18.89	19.23	20.77
	6H	19.39	19.67	20.54	20.81	22.35	18.42	18.70	19.57	19.84	21.38
	8H	19.70	19.95	20.85	21.08	22.66	18.73	18.97	19.87	20.10	21.68