

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: P1438709

Luminaire Tested: CB2-085U-030D-940-1D-UNV-STD-W-4

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438709  
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-030D-940-1D-UNV-STD-W-4  
Description: CORELITE BASIC SLOT LED LUMINAIRE, OPEN UPLIGHT  
2-INCH APERTURE  
DOWNLIGHT 300 LUMENS PER FOOT  
UPLIGHT 850 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

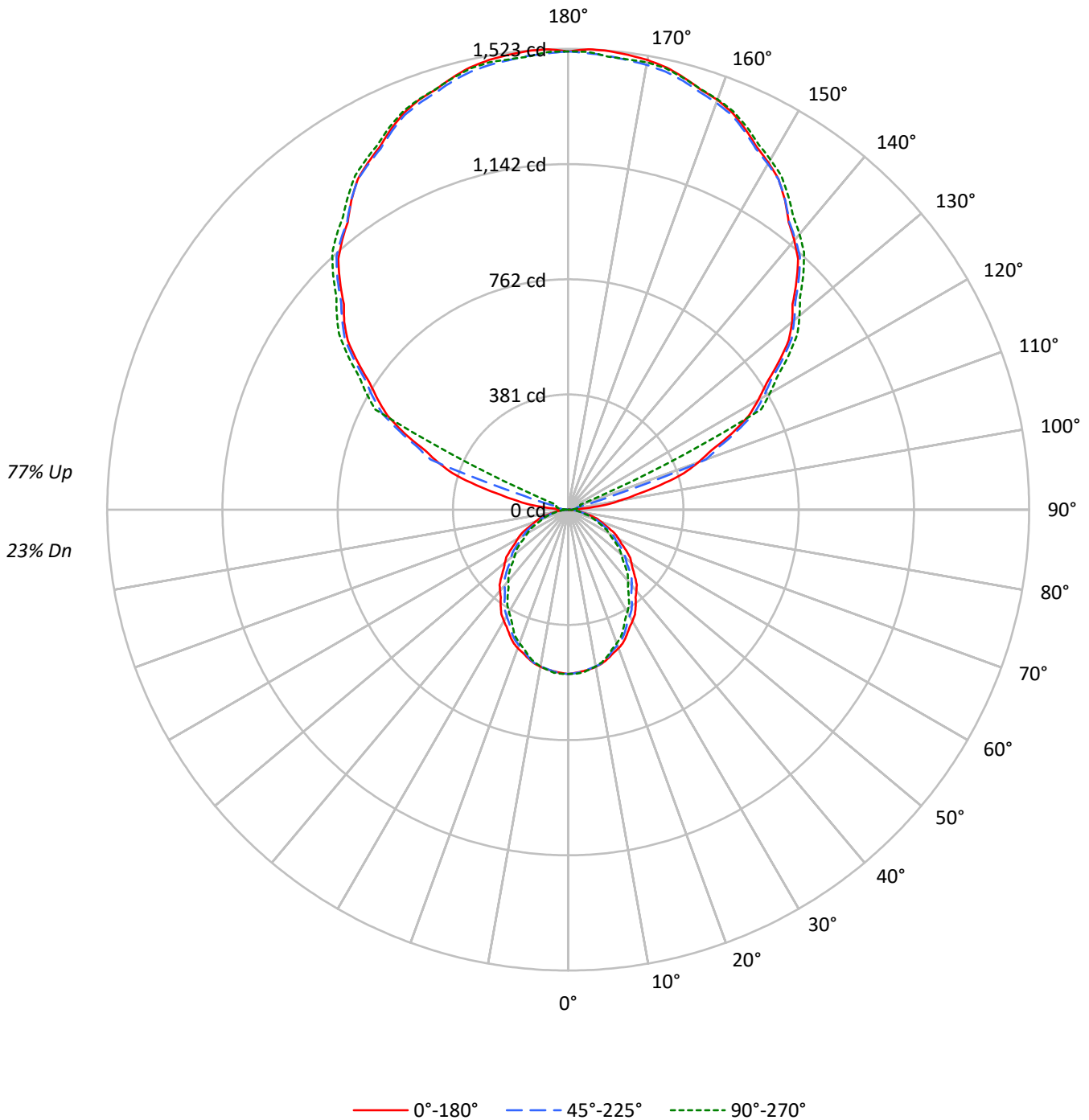
Lumens per Lamp: N/A  
Luminaire Lumens: 5584.4 lumens  
Efficiency: N/A  
Efficacy: 163.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 34.1  
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	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	27	27	26	19
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	24	23	22	16
3	76	67	60	55	67	60	54	49	46	42	39	33	31	29	22	20	19	14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	12
5	64	53	45	39	56	47	41	36	37	32	28	27	24	21	17	16	14	10
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13	9
7	54	42	35	30	48	38	32	27	30	25	22	22	19	16	14	13	11	8
8	50	38	31	26	44	34	28	24	27	22	19	20	17	15	13	11	10	7
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	12	10	9	7
10	43	32	25	20	38	29	23	19	23	18	15	17	14	12	11	9	8	6

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

	0°	45°	90°
0°	9456	9456	9456
5°	9377	9391	9455
10°	9322	9301	9294
15°	9175	9115	9039
20°	9030	8830	8708
25°	8788	8540	8300
30°	8546	8169	7860
35°	8265	7786	7416
40°	7967	7428	6994
45°	7670	7055	6584
50°	7400	6690	6183
55°	7069	6313	5806
60°	6692	5953	5431
65°	6289	5551	5053
70°	5841	5103	4573
75°	5316	4616	4139
80°	4754	4042	3751
85°	3657	3317	2738

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7670 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.1	0.9
10°-20°	142.3	2.5
20°-30°	204.6	3.7
30°-40°	230.0	4.1
40°-50°	222.2	4.0
50°-60°	187.7	3.4
60°-70°	134.8	2.4
70°-80°	73.7	1.3
80°-90°	19.6	0.4
90°-100°	26.4	0.5
100°-110°	168.0	3.0
110°-120°	533.7	9.6
120°-130°	774.5	13.9
130°-140°	833.0	14.9
140°-150°	784.3	14.0
150°-160°	638.9	11.4
160°-170°	415.8	7.4
170°-180°	143.7	2.6
0°-30°	398.0	7.1
0°-40°	628.0	11.2
0°-60°	1037.9	18.6
0°-90°	1266.1	22.7
90°-120°	728.1	13.0
90°-150°	3119.8	55.9
90°-180°	4318.0	77.3
0°-180°	5584.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	543	543	543	543	543	
5°	536	544	537	537	541	51
15°	509	513	506	500	501	143
25°	457	458	444	434	432	211
35°	389	384	366	352	349	243
45°	311	305	286	271	267	241
55°	233	224	208	195	191	208
65°	153	147	135	125	123	151
75°	79	74	69	63	62	84
85°	18	17	17	14	14	22
90°	0	0	0	1	1	3
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°	542.9	542.9	542.9	542.9	542.9
2.5°	539.3	545.8	540.9	541.6	542.6
5°	536.3	543.6	537.1	537.2	540.8
7.5°	532.4	539.4	531.2	529.7	533.1
10°	527.1	534.0	525.9	523.0	525.5
12.5°	520.1	526.7	518.9	514.4	516.5
15°	508.8	513.3	505.5	500.5	501.3
17.5°	496.5	499.3	488.0	483.9	483.1
20°	487.2	489.7	476.4	470.6	469.8
22.5°	475.2	477.4	463.4	456.3	455.1
25°	457.3	457.7	444.4	434.4	431.9
27.5°	438.5	437.2	422.4	410.6	407.4
30°	424.9	423.2	406.2	393.6	390.8
32.5°	410.2	407.3	390.2	376.7	373.8
35°	388.7	384.2	366.2	352.0	348.8
37.5°	365.7	360.7	343.0	327.6	323.9
40°	350.4	344.8	326.7	311.3	307.6
42.5°	335.1	328.8	310.5	295.0	291.0
45°	311.4	304.9	286.4	271.4	267.3
47.5°	288.8	280.5	262.6	247.6	243.5
50°	273.1	264.2	246.9	232.3	228.2
52.5°	257.2	247.9	231.3	217.3	213.3
55°	232.8	224.3	207.9	194.9	191.2
57.5°	208.7	200.5	185.5	173.1	169.5
60°	192.1	185.1	170.9	159.1	155.9
62.5°	176.1	169.8	156.2	145.5	142.3
65°	152.6	146.9	134.7	125.1	122.6
67.5°	129.7	124.0	114.2	105.5	102.8
70°	114.7	109.0	100.2	92.2	89.8
72.5°	100.4	94.4	87.2	79.9	78.2
75°	79.0	74.1	68.6	63.2	61.5
77.5°	60.0	55.3	51.3	47.5	47.1
80°	47.4	43.3	40.3	37.8	37.4
82.5°	35.4	32.3	30.3	28.5	28.4
85°	18.3	17.1	16.6	14.5	13.7
87.5°	5.3	5.3	4.7	4.2	4.2
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	11.47	12.12	12.63	13.27	14.88	10.37	11.02	11.53	12.17	13.78
	3H	13.10	13.68	14.27	14.84	16.47	11.88	12.46	13.05	13.62	15.25
	4H	13.71	14.27	14.89	15.43	17.06	12.44	13.00	13.62	14.15	15.79
	6H	14.11	14.62	15.29	15.78	17.42	12.80	13.32	13.99	14.47	16.12
	8H	14.25	14.74	15.44	15.91	17.54	12.94	13.43	14.13	14.60	16.23
	12H	14.32	14.78	15.51	15.94	17.60	12.99	13.46	14.18	14.62	16.28
4H	2H	11.85	12.41	13.04	13.56	15.20	10.98	11.53	12.16	12.69	14.32
	3H	13.70	14.17	14.89	15.35	16.99	12.69	13.16	13.88	14.34	15.98
	4H	14.44	14.87	15.63	16.03	17.70	13.36	13.79	14.55	14.95	16.62
	6H	14.95	15.31	16.14	16.50	18.16	13.82	14.19	15.02	15.38	17.03
	8H	15.15	15.49	16.34	16.67	18.34	14.01	14.35	15.20	15.53	17.20
	12H	15.24	15.55	16.45	16.74	18.42	14.08	14.39	15.29	15.59	17.26
8H	4H	14.58	14.92	15.77	16.10	17.77	13.61	13.96	14.81	15.14	16.81
	6H	15.21	15.49	16.42	16.72	18.38	14.21	14.49	15.42	15.72	17.38
	8H	15.50	15.74	16.72	16.95	18.63	14.48	14.73	15.70	15.93	17.62
	12H	15.66	15.88	16.89	17.08	18.80	14.62	14.84	15.84	16.04	17.76
12H	4H	14.55	14.86	15.76	16.05	17.73	13.61	13.92	14.82	15.11	16.79
	6H	15.24	15.48	16.46	16.68	18.37	14.27	14.52	15.49	15.72	17.41
	8H	15.55	15.76	16.77	16.96	18.68	14.57	14.78	15.79	15.98	17.70