

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: P1438703

Luminaire Tested: CB2-085U-030D-927-1D-UNV-STD-W-4

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438703  
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-927-1D-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: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

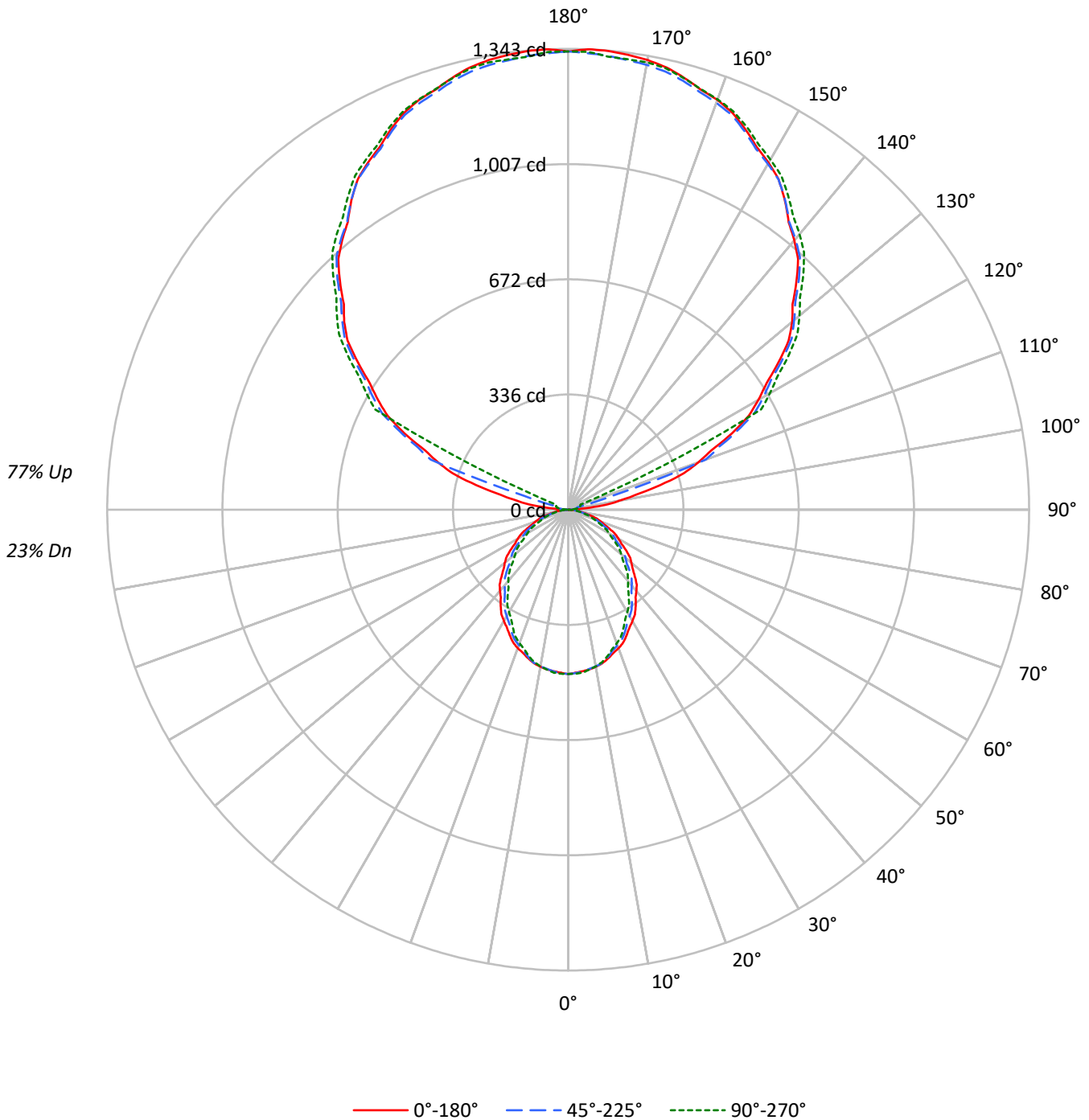
Lumens per Lamp: N/A  
Luminaire Lumens: 4924.4 lumens  
Efficiency: N/A  
Efficacy: 144.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.23  
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

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										
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	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°	8339	8339	8339
5°	8268	8280	8338
10°	8220	8201	8196
15°	8091	8039	7972
20°	7963	7787	7677
25°	7749	7531	7320
30°	7534	7202	6931
35°	7289	6868	6540
40°	7026	6550	6168
45°	6764	6222	5806
50°	6525	5899	5455
55°	6234	5566	5120
60°	5901	5250	4790
65°	5543	4896	4455
70°	5154	4497	4033
75°	4690	4071	3654
80°	4193	3571	3310
85°	3217	2938	2418

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6764 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.0	0.9
10°-20°	125.5	2.5
20°-30°	180.4	3.7
30°-40°	202.8	4.1
40°-50°	195.9	4.0
50°-60°	165.5	3.4
60°-70°	118.9	2.4
70°-80°	65.0	1.3
80°-90°	17.3	0.4
90°-100°	23.3	0.5
100°-110°	148.1	3.0
110°-120°	470.6	9.6
120°-130°	683.0	13.9
130°-140°	734.5	14.9
140°-150°	691.6	14.0
150°-160°	563.4	11.4
160°-170°	366.7	7.4
170°-180°	126.8	2.6
0°-30°	351.0	7.1
0°-40°	553.8	11.2
0°-60°	915.2	18.6
0°-90°	1116.5	22.7
90°-120°	642.0	13.0
90°-150°	2751.1	55.9
90°-180°	3808.0	77.3
0°-180°	4924.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	479	479	479	479	479	
5°	473	479	474	474	477	45
15°	449	453	446	441	442	126
25°	403	404	392	383	381	186
35°	343	339	323	310	308	214
45°	275	269	253	239	236	212
55°	205	198	183	172	169	184
65°	134	130	119	110	108	133
75°	70	65	60	56	54	75
85°	16	15	15	13	12	19
90°	0	0	0	1	1	3
95°	53	15	16	11	10	67
105°	278	288	29	34	36	293
115°	526	538	543	549	315	517
125°	747	761	761	774	784	668
135°	940	952	950	956	968	725
145°	1101	1109	1102	1103	1117	688
155°	1222	1230	1217	1214	1231	564
165°	1304	1307	1294	1288	1302	368
175°	1342	1345	1328	1319	1326	128
180°	1336	1336	1336	1336	1336	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	478.8	478.8	478.8	478.8	478.8
2.5°	475.5	481.3	477.0	477.6	478.5
5°	472.9	479.3	473.6	473.7	476.9
7.5°	469.5	475.6	468.4	467.1	470.1
10°	464.8	470.9	463.7	461.2	463.4
12.5°	458.7	464.5	457.6	453.6	455.4
15°	448.7	452.6	445.8	441.4	442.1
17.5°	437.8	440.3	430.4	426.7	426.0
20°	429.6	431.8	420.1	415.0	414.2
22.5°	419.1	420.9	408.7	402.3	401.3
25°	403.2	403.6	391.9	383.0	380.9
27.5°	386.7	385.5	372.5	362.0	359.2
30°	374.6	373.2	358.1	347.1	344.6
32.5°	361.7	359.2	344.1	332.1	329.6
35°	342.8	338.8	323.0	310.4	307.6
37.5°	322.5	318.1	302.5	288.9	285.6
40°	309.0	304.0	288.1	274.5	271.3
42.5°	295.5	289.9	273.8	260.1	256.6
45°	274.6	268.8	252.6	239.3	235.7
47.5°	254.6	247.3	231.5	218.3	214.7
50°	240.8	233.0	217.7	204.8	201.3
52.5°	226.8	218.6	204.0	191.6	188.1
55°	205.3	197.8	183.3	171.9	168.6
57.5°	184.0	176.8	163.6	152.6	149.5
60°	169.4	163.3	150.7	140.3	137.5
62.5°	155.3	149.8	137.8	128.3	125.4
65°	134.5	129.5	118.8	110.3	108.1
67.5°	114.4	109.4	100.7	93.1	90.6
70°	101.2	96.2	88.3	81.3	79.2
72.5°	88.6	83.3	76.9	70.5	68.9
75°	69.7	65.3	60.5	55.7	54.3
77.5°	52.9	48.8	45.2	41.9	41.5
80°	41.8	38.2	35.6	33.4	33.0
82.5°	31.2	28.5	26.8	25.1	25.1
85°	16.1	15.1	14.7	12.8	12.1
87.5°	4.7	4.7	4.1	3.7	3.7
90°	0.0	0.0	0.0	1.0	1.0
92.5°	14.7	5.6	3.9	5.6	5.6
95°	53.1	15.3	16.4	10.6	9.7
97.5°	110.3	24.7	23.8	26.1	27.0
100°	153.5	50.6	26.1	30.0	30.9
102.5°	201.4	190.7	26.8	32.3	34.0
105°	278.1	288.5	29.0	33.8	35.7
107.5°	353.4	363.8	134.8	35.0	36.9
110°	403.6	414.0	426.8	35.8	37.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	450.8	463.4	473.2	79.6	39.2
115°	526.3	537.6	542.7	549.0	314.8
117.5°	592.9	606.9	612.6	623.5	634.0
120°	639.3	652.5	656.6	667.5	678.8
122.5°	684.8	696.5	699.1	711.5	722.1
125°	747.4	760.6	760.9	773.7	784.1
127.5°	810.0	821.3	820.8	830.3	841.8
130°	851.7	859.2	859.4	867.4	879.7
132.5°	886.5	897.0	897.3	903.7	916.0
135°	940.5	951.9	950.2	956.3	968.5
137.5°	991.3	1002.3	999.2	1004.4	1017.0
140°	1024.5	1034.0	1029.4	1034.5	1048.7
142.5°	1055.4	1064.9	1058.0	1062.4	1077.3
145°	1100.8	1109.3	1101.8	1103.1	1117.2
147.5°	1141.2	1149.5	1140.4	1141.7	1154.9
150°	1167.5	1175.0	1163.6	1164.9	1178.1
152.5°	1190.6	1197.4	1185.2	1185.0	1200.5
155°	1222.5	1230.1	1216.7	1214.2	1231.2
157.5°	1251.5	1258.5	1245.1	1243.3	1256.5
160°	1270.8	1275.5	1262.1	1259.5	1272.7
162.5°	1283.9	1289.4	1276.0	1271.9	1285.1
165°	1303.6	1307.4	1294.0	1288.5	1301.7
167.5°	1320.6	1325.0	1307.7	1302.8	1316.9
170°	1330.7	1333.5	1316.2	1309.7	1323.9
172.5°	1336.8	1338.9	1321.6	1314.3	1323.9
175°	1342.2	1345.1	1327.8	1319.2	1325.8
177.5°	1343.2	1344.7	1331.6	1324.2	1335.5
180°	1335.5	1335.5	1335.5	1335.5	1335.5



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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	11.03	11.69	12.19	12.83	14.45	9.93	10.58	11.09	11.73	13.35
	3H	12.66	13.25	13.83	14.40	16.03	11.44	12.03	12.61	13.18	14.81
	4H	13.28	13.84	14.46	14.99	16.63	12.01	12.56	13.18	13.72	15.35
	6H	13.67	14.18	14.86	15.34	16.99	12.37	12.88	13.55	14.04	15.68
	8H	13.81	14.30	15.00	15.47	17.11	12.50	12.99	13.69	14.16	15.80
	12H	13.88	14.34	15.07	15.51	17.17	12.56	13.02	13.75	14.18	15.84
4H	2H	11.41	11.97	12.60	13.13	14.76	10.54	11.10	11.72	12.25	13.88
	3H	13.27	13.73	14.46	14.91	16.56	12.25	12.72	13.44	13.90	15.55
	4H	14.00	14.43	15.19	15.60	17.26	12.92	13.35	14.11	14.52	16.18
	6H	14.51	14.88	15.71	16.07	17.72	13.38	13.75	14.58	14.94	16.59
	8H	14.71	15.05	15.90	16.23	17.90	13.57	13.91	14.76	15.09	16.76
	12H	14.81	15.12	16.02	16.31	17.98	13.65	13.96	14.86	15.15	16.83
8H	4H	14.14	14.48	15.34	15.67	17.34	13.18	13.52	14.37	14.70	16.37
	6H	14.78	15.06	15.99	16.28	17.95	13.77	14.06	14.99	15.28	16.95
	8H	15.06	15.31	16.28	16.51	18.20	14.05	14.29	15.27	15.49	17.18
	12H	15.23	15.44	16.45	16.64	18.36	14.19	14.40	15.41	15.60	17.32
12H	4H	14.11	14.42	15.32	15.61	17.29	13.17	13.48	14.38	14.67	16.35
	6H	14.80	15.05	16.02	16.25	17.94	13.84	14.08	15.05	15.28	16.97
	8H	15.11	15.32	16.33	16.52	18.24	14.13	14.35	15.35	15.55	17.26