

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: P1438935

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

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438935  
REPORT IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2405-119-1, G2-2312-242-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/31/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB2-B-085U-085D-940-1D-UNV-STD-W-4  
Description: CORELITE BASIC SLOT LED LUMINAIRE, BATWING UPLIGHT  
2-INCH APERTURE  
DOWNLIGHT 850 LUMENS PER FOOT  
UPLIGHT 850 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

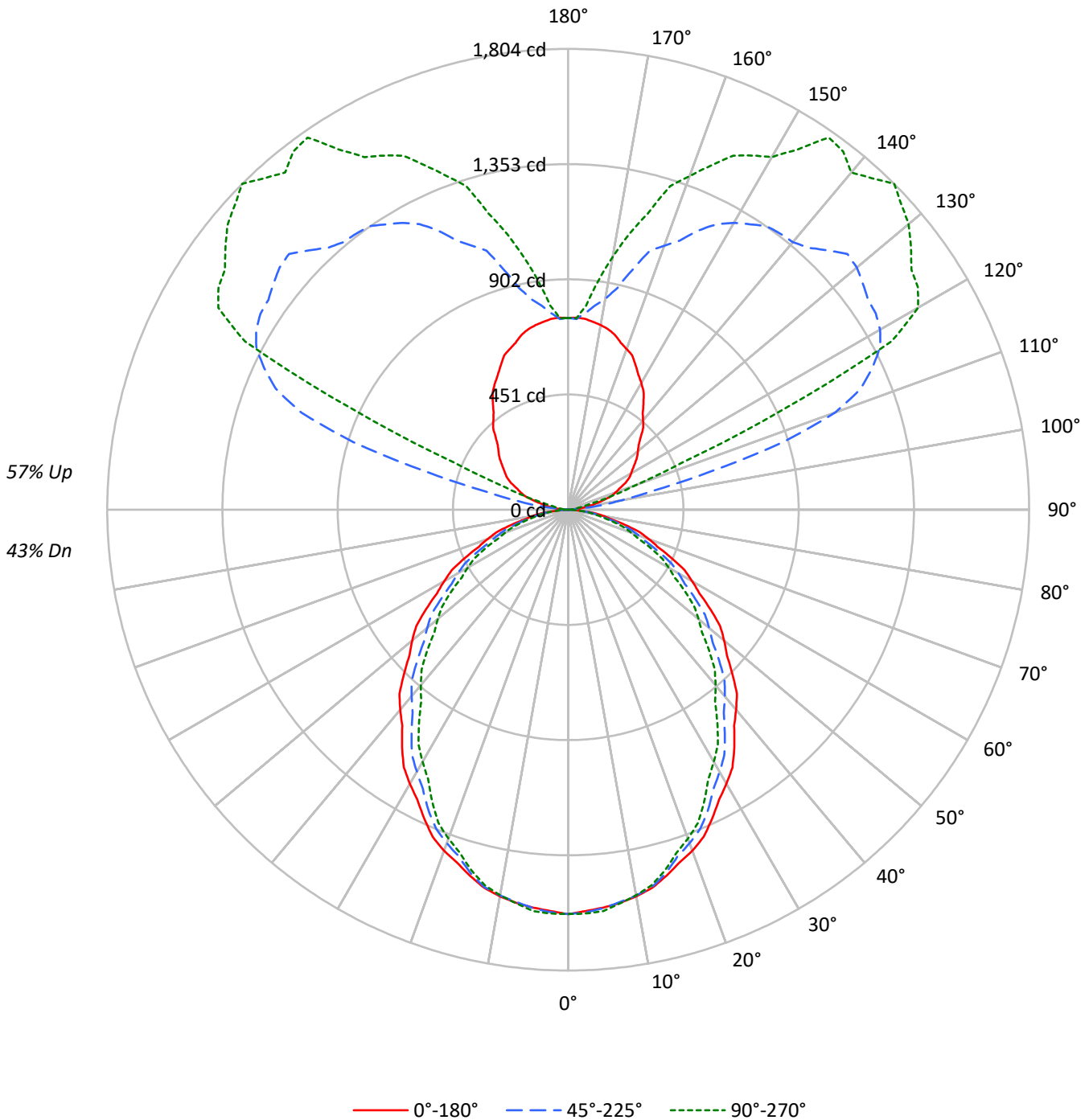
Lumens per Lamp: N/A  
Luminaire Lumens: 8620.3 lumens  
Efficiency: N/A  
Efficacy: 161.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 53.3  
Input Voltage (V): 120  
Input Current (Ain): 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	50	30	10	0																			
RCR																																														
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43																												
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36																												
2	88	81	75	70	80	74	69	64	61	58	54	50	47	45	39	37	36	31																												
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	32	31	26																												
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	26	23																												
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	20																												
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	25	23	20	17																												
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	16																												
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	21	19	16	14																												
9	50	38	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15	13																												
10	46	34	27	23	42	32	26	21	27	22	19	23	19	16	18	16	13	12																												

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

	0°	45°	90°
0°	27573	27573	27573
5°	27340	27381	27574
10°	27185	27120	27099
15°	26754	26579	26361
20°	26333	25749	25389
25°	25625	24903	24205
30°	24917	23818	22917
35°	24099	22706	21624
40°	23235	21664	20395
45°	22363	20573	19198
50°	21580	19510	18033
55°	20613	18405	16932
60°	19507	17355	15836
65°	18336	16184	14738
70°	17039	14875	13332
75°	15498	13459	12073
80°	13862	11796	10943
85°	10652	9692	7994

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22363 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.9	1.7
10°-20°	415.0	4.8
20°-30°	596.7	6.9
30°-40°	670.7	7.8
40°-50°	647.9	7.5
50°-60°	547.4	6.4
60°-70°	393.2	4.6
70°-80°	214.9	2.5
80°-90°	57.1	0.7
90°-100°	56.2	0.7
100°-110°	348.0	4.0
110°-120°	877.7	10.2
120°-130°	1055.1	12.2
130°-140°	956.6	11.1
140°-150°	762.8	8.8
150°-160°	520.4	6.0
160°-170°	275.2	3.2
170°-180°	76.6	0.9
0°-30°	1160.6	13.5
0°-40°	1831.2	21.2
0°-60°	3026.5	35.1
0°-90°	3691.7	42.8
90°-120°	1282.0	14.9
90°-150°	4056.5	47.1
90°-180°	4929.0	57.2
0°-180°	8620.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1583	1583	1583	1583	1583	
5°	1564	1585	1566	1566	1577	148
15°	1484	1497	1474	1460	1462	418
25°	1333	1335	1296	1267	1260	614
35°	1133	1120	1068	1026	1017	708
45°	908	889	835	791	779	701
55°	679	654	606	568	558	607
65°	445	428	393	365	358	441
75°	230	216	200	184	179	246
85°	53	50	48	42	40	63
90°	0	0	0	0	0	3
95°	29	73	23	16	16	37
105°	142	398	576	144	97	149
115°	246	543	1313	1222	931	241
125°	320	658	1432	1630	1639	287
135°	401	730	1436	1681	1804	312
145°	514	767	1355	1633	1778	321
155°	624	782	1206	1453	1529	287
165°	708	774	973	1146	1200	199
175°	750	760	773	786	802	71
180°	750	750	750	750	750	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1583.1	1583.1	1583.1	1583.1	1583.1
2.5°	1572.5	1591.4	1577.3	1579.3	1582.1
5°	1563.7	1585.1	1566.1	1566.4	1577.1
7.5°	1552.6	1572.7	1548.9	1544.6	1554.5
10°	1537.1	1557.2	1533.4	1525.1	1532.2
12.5°	1516.7	1535.9	1513.1	1499.9	1506.0
15°	1483.7	1496.8	1474.0	1459.5	1461.9
17.5°	1447.8	1455.9	1423.1	1410.9	1408.6
20°	1420.7	1427.8	1389.2	1372.1	1369.8
22.5°	1385.8	1391.9	1351.3	1330.4	1327.1
25°	1333.4	1334.6	1295.8	1266.6	1259.5
27.5°	1278.6	1274.8	1231.8	1197.2	1187.9
30°	1238.9	1234.1	1184.3	1147.8	1139.5
32.5°	1196.2	1187.7	1137.8	1098.3	1090.0
35°	1133.4	1120.4	1067.9	1026.5	1017.0
37.5°	1066.5	1051.8	1000.3	955.2	944.5
40°	1021.9	1005.3	952.8	907.7	897.0
42.5°	977.3	958.8	905.3	860.1	848.5
45°	907.9	889.0	835.2	791.3	779.4
47.5°	842.0	817.8	765.6	722.0	710.1
50°	796.4	770.3	720.0	677.3	665.5
52.5°	749.9	722.8	674.5	633.7	621.9
55°	678.8	653.9	606.1	568.3	557.6
57.5°	608.5	584.6	540.9	504.8	494.3
60°	560.0	539.9	498.2	464.1	454.6
62.5°	513.5	495.2	455.5	424.3	414.8
65°	444.9	428.3	392.7	364.7	357.6
67.5°	378.2	361.6	332.9	307.7	299.7
70°	334.6	318.0	292.1	268.9	261.8
72.5°	292.9	275.3	254.3	233.1	227.9
75°	230.3	216.1	200.0	184.1	179.4
77.5°	175.0	161.3	149.6	138.4	137.2
80°	138.2	126.3	117.6	110.3	109.1
82.5°	103.3	94.3	88.5	83.2	82.9
85°	53.3	49.8	48.5	42.4	40.0
87.5°	15.5	15.5	13.6	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	7.8	12.8	5.2	5.2	5.2
95°	29.1	73.4	22.6	16.2	16.2
97.5°	60.8	175.9	122.2	32.9	28.5
100°	84.1	254.8	210.2	48.3	38.8
102.5°	107.3	323.6	331.7	76.6	59.5
105°	142.3	398.3	575.5	144.4	97.0
107.5°	176.5	447.1	882.0	298.0	179.8
110°	197.2	475.4	1112.2	464.6	278.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	217.9	503.7	1238.9	744.7	479.8
115°	245.7	542.9	1312.6	1222.0	931.1
117.5°	269.0	578.8	1376.0	1511.2	1425.8
120°	284.5	607.0	1409.6	1552.5	1581.0
122.5°	300.0	627.5	1427.7	1568.6	1622.4
125°	320.1	658.3	1432.3	1629.7	1639.2
127.5°	340.1	681.5	1453.6	1685.8	1690.3
130°	355.6	697.1	1474.3	1704.6	1739.4
132.5°	373.7	710.1	1482.1	1715.4	1767.9
135°	400.9	729.7	1435.5	1680.8	1804.1
137.5°	435.2	743.7	1390.9	1679.8	1759.5
140°	455.9	746.7	1367.6	1716.9	1723.3
142.5°	479.1	754.8	1362.4	1712.8	1767.2
145°	514.1	767.0	1354.7	1632.8	1778.2
147.5°	549.0	774.7	1324.9	1544.4	1671.5
150°	572.3	777.7	1296.5	1514.9	1593.9
152.5°	595.5	780.8	1260.3	1496.5	1562.9
155°	624.0	782.1	1206.0	1453.4	1529.3
157.5°	653.7	778.3	1140.6	1374.7	1457.5
160°	669.3	773.6	1099.3	1317.5	1390.2
162.5°	684.8	771.4	1063.0	1242.8	1328.2
165°	708.1	774.4	973.2	1145.7	1199.5
167.5°	723.6	771.6	889.1	1030.5	1106.4
170°	733.9	771.9	837.4	942.3	1005.5
172.5°	741.7	759.4	806.3	861.6	904.6
175°	750.1	759.6	772.7	786.0	801.8
177.5°	752.7	757.7	747.5	745.0	750.1
180°	750.1	750.1	750.1	750.1	750.1



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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	17.82	18.61	18.84	19.64	21.01	16.72	17.51	17.74	18.54	19.91
	3H	19.46	20.17	20.49	21.20	22.60	18.24	18.95	19.27	19.99	21.38
	4H	20.09	20.76	21.13	21.79	23.19	18.81	19.48	19.86	20.52	21.92
	6H	20.49	21.10	21.54	22.14	23.56	19.18	19.80	20.23	20.84	22.25
	8H	20.63	21.22	21.69	22.28	23.68	19.32	19.91	20.38	20.97	22.37
	12H	20.70	21.26	21.76	22.31	23.74	19.38	19.94	20.44	20.99	22.42
4H	2H	18.22	18.89	19.27	19.93	21.33	17.35	18.02	18.40	19.06	20.45
	3H	20.09	20.64	21.14	21.71	23.12	19.08	19.64	20.13	20.70	22.11
	4H	20.83	21.34	21.89	22.40	23.83	19.75	20.26	20.81	21.32	22.75
	6H	21.34	21.78	22.41	22.86	24.29	20.22	20.66	21.29	21.74	23.17
	8H	21.55	21.96	22.62	23.03	24.47	20.41	20.82	21.48	21.89	23.33
	12H	21.65	22.02	22.74	23.11	24.56	20.49	20.86	21.58	21.95	23.40
8H	4H	20.98	21.39	22.05	22.46	23.91	20.01	20.43	21.09	21.50	22.94
	6H	21.62	21.96	22.71	23.07	24.51	20.62	20.96	21.71	22.07	23.51
	8H	21.91	22.21	23.01	23.30	24.76	20.89	21.19	21.99	22.29	23.75
	12H	22.08	22.34	23.18	23.43	24.93	21.04	21.30	22.14	22.39	23.89
12H	4H	20.96	21.33	22.04	22.41	23.86	20.01	20.39	21.10	21.47	22.92
	6H	21.65	21.94	22.75	23.04	24.50	20.68	20.98	21.78	22.07	23.53
	8H	21.96	22.22	23.06	23.31	24.81	20.98	21.24	22.09	22.34	23.84