

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: P1439455

Luminaire Tested: CB3-B-085U-085D-940-1D-UNV-STD-W-4

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1439455  
REPORT IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2405-119-2, G2-2312-242-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/31/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB3-B-085U-085D-940-1D-UNV-STD-W-4  
Description: CORELITE BASIC SLOT LED LUMINAIRE, BATWING UPLIGHT  
3-INCH APERTURE  
DOWNLIGHT 850 LUMENS PER FOOT  
UPLIGHT 850 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

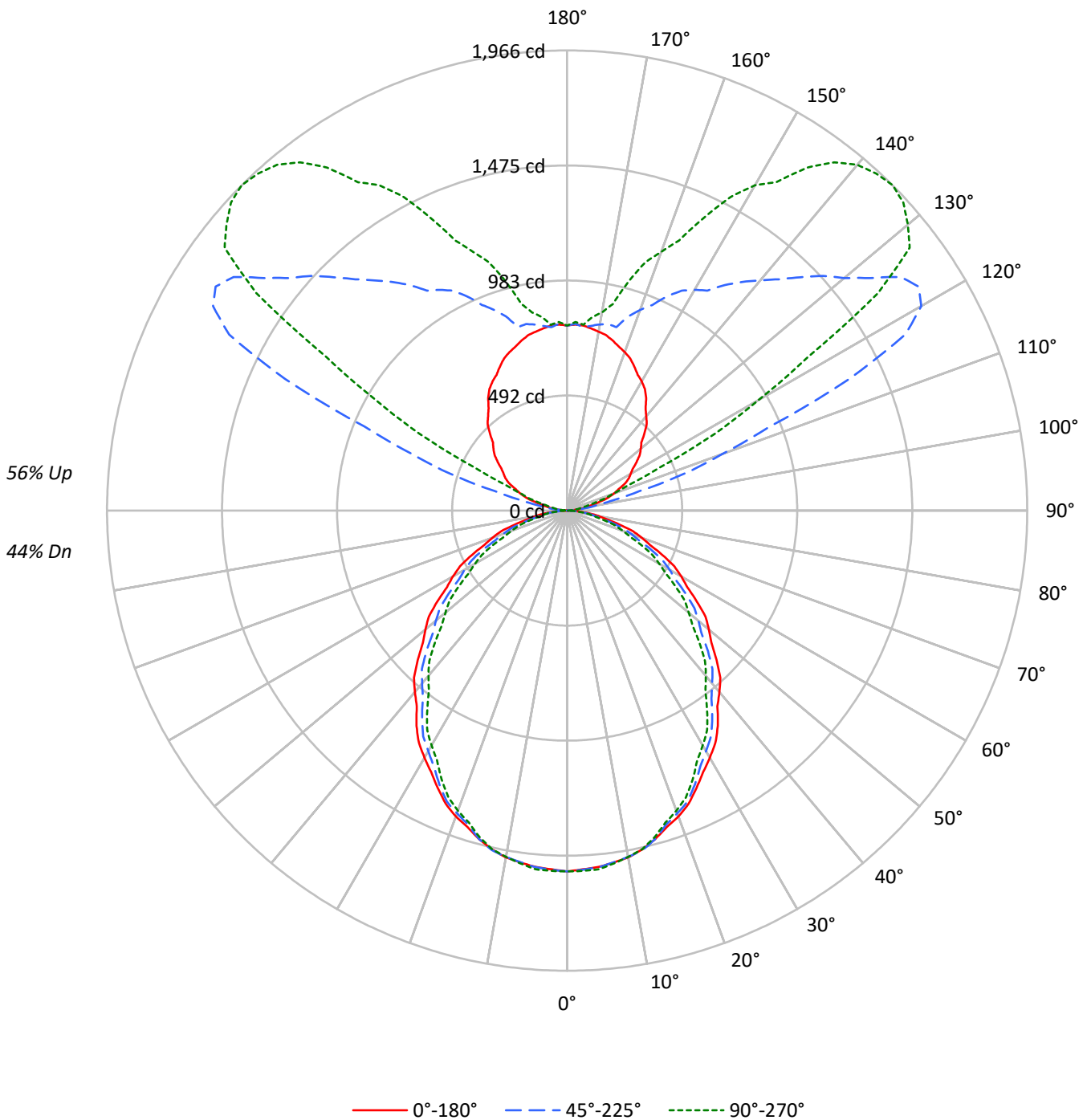
Lumens per Lamp: N/A  
Luminaire Lumens: 8338.1 lumens  
Efficiency: N/A  
Efficacy: 168.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26  
Luminous Opening: Rectangular (W 0.24' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 49.5  
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					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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44								
1	97	92	89	85	88	85	82	79	70	68	66	57	56	54	45	44	43	38								
2	88	81	75	70	80	74	69	65	62	58	55	51	48	46	40	38	37	32								
3	80	71	64	58	73	66	59	54	55	50	46	45	41	39	36	33	31	27								
4	74	63	55	49	67	58	51	46	49	44	40	40	36	33	32	29	27	23								
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24	20								
6	62	50	43	37	57	47	40	34	39	34	30	33	28	25	26	23	21	18								
7	58	46	38	32	53	42	35	30	36	30	26	30	26	22	24	21	19	16								
8	53	41	34	29	49	38	32	27	33	27	23	27	23	20	22	19	17	14								
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13								
10	46	35	28	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12								

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

	0°	45°	90°
0°	17445	17445	17445
5°	17363	17375	17475
10°	17287	17261	17261
15°	17021	17021	16919
20°	16745	16574	16428
25°	16323	16118	15831
30°	15924	15508	15137
35°	15503	14929	14400
40°	14944	14234	13618
45°	14438	13615	12774
50°	13916	12876	11950
55°	13349	12161	11167
60°	12738	11423	10283
65°	12021	10583	9352
70°	11195	9600	8333
75°	10151	8424	7419
80°	8848	7063	6561
85°	6829	5972	5972

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14438 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.5	1.7
10°-20°	408.7	4.9
20°-30°	593.8	7.1
30°-40°	675.1	8.1
40°-50°	655.4	7.9
50°-60°	553.3	6.6
60°-70°	393.7	4.7
70°-80°	210.3	2.5
80°-90°	55.6	0.7
90°-100°	53.4	0.6
100°-110°	280.0	3.4
110°-120°	704.7	8.5
120°-130°	1087.2	13.0
130°-140°	995.3	11.9
140°-150°	734.6	8.8
150°-160°	468.2	5.6
160°-170°	246.5	3.0
170°-180°	76.8	0.9
0°-30°	1148.0	13.8
0°-40°	1823.1	21.9
0°-60°	3031.8	36.4
0°-90°	3691.4	44.3
90°-120°	1038.1	12.5
90°-150°	3855.2	46.2
90°-180°	4647.0	55.7
0°-180°	8338.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1542	1542	1542	1542	1542	
5°	1529	1548	1530	1528	1539	145
15°	1453	1466	1453	1444	1444	409
25°	1308	1312	1291	1273	1268	602
35°	1122	1112	1081	1049	1042	699
45°	902	888	851	810	798	696
55°	677	658	616	577	566	605
65°	449	433	395	360	349	445
75°	232	219	193	173	170	248
85°	53	48	46	46	46	62
90°	0	0	0	0	0	3
95°	28	79	31	17	17	35
105°	143	442	320	132	108	152
115°	272	554	1330	578	438	264
125°	362	559	1740	1754	1622	324
135°	466	623	1410	1922	1966	360
145°	588	680	1176	1636	1789	366
155°	679	730	1009	1249	1378	313
165°	752	772	811	948	1013	212
175°	794	810	786	790	797	75
180°	790	790	790	790	790	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1541.8	1541.8	1541.8	1541.8	1541.8
2.5°	1534.0	1549.4	1535.7	1537.5	1541.0
5°	1528.7	1548.0	1529.8	1527.9	1538.6
7.5°	1516.9	1534.4	1515.6	1511.2	1520.8
10°	1504.6	1523.9	1502.4	1497.1	1502.4
12.5°	1482.7	1502.8	1485.8	1476.9	1481.4
15°	1453.1	1466.0	1453.1	1444.4	1444.4
17.5°	1417.0	1430.5	1406.3	1400.1	1397.7
20°	1390.7	1402.5	1376.5	1367.7	1364.4
22.5°	1355.7	1366.6	1345.0	1330.0	1325.9
25°	1307.5	1311.8	1291.1	1273.4	1268.1
27.5°	1259.1	1260.2	1231.7	1210.3	1203.3
30°	1218.8	1219.9	1187.0	1163.9	1158.6
32.5°	1178.5	1175.3	1144.1	1116.7	1113.0
35°	1122.4	1111.7	1080.8	1048.9	1042.5
37.5°	1054.8	1048.3	1011.8	979.9	970.2
40°	1011.8	1001.1	963.7	931.7	922.0
42.5°	968.9	956.5	918.1	882.6	872.1
45°	902.3	888.4	850.9	810.1	798.3
47.5°	835.3	820.1	778.8	739.3	726.2
50°	790.6	774.6	731.5	692.9	678.9
52.5°	745.1	728.2	685.1	645.6	634.3
55°	676.7	658.5	616.5	576.9	566.1
57.5°	608.4	590.4	548.6	511.1	498.3
60°	562.9	545.7	504.8	467.3	454.4
62.5°	516.4	500.2	460.1	423.5	411.5
65°	449.0	432.9	395.3	360.0	349.3
67.5°	382.2	368.5	331.4	299.0	290.4
70°	338.4	325.5	290.2	260.4	251.9
72.5°	296.3	282.6	249.0	223.7	217.7
75°	232.2	219.3	192.7	172.9	169.7
77.5°	173.5	163.0	139.9	128.7	127.0
80°	135.8	126.2	108.4	100.7	100.7
82.5°	100.7	92.8	81.3	78.0	78.0
85°	52.6	48.3	46.0	46.0	46.0
87.5°	15.8	15.8	14.9	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.4	19.2	5.6	2.8	5.6
95°	27.8	78.9	31.3	17.4	17.4
97.5°	57.8	176.2	80.7	43.1	39.0
100°	80.0	250.2	125.3	62.5	55.7
102.5°	105.1	324.3	189.3	84.6	72.4
105°	142.7	442.1	320.2	131.7	107.9
107.5°	184.5	522.7	527.6	203.0	163.6
110°	212.3	556.0	703.0	266.6	205.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	237.4	564.7	936.9	363.5	280.5
115°	271.5	553.9	1329.5	578.0	438.5
117.5°	296.5	527.2	1627.4	919.6	709.3
120°	313.2	527.6	1747.1	1178.0	943.2
122.5°	332.7	530.8	1780.5	1434.5	1218.8
125°	361.9	559.3	1740.1	1754.5	1621.8
127.5°	391.2	580.4	1631.6	1886.1	1844.5
130°	410.7	594.4	1545.2	1930.9	1900.2
132.5°	430.2	608.5	1484.0	1931.9	1947.6
135°	466.4	622.9	1409.5	1922.1	1966.4
137.5°	503.2	640.7	1339.9	1861.3	1953.1
140°	525.5	654.8	1284.2	1795.4	1928.1
142.5°	550.6	666.3	1231.3	1734.3	1875.2
145°	588.2	680.0	1176.3	1635.7	1788.9
147.5°	617.4	687.5	1114.4	1536.3	1662.9
150°	636.9	687.9	1089.3	1447.9	1604.4
152.5°	653.6	701.9	1058.7	1366.8	1509.7
155°	678.7	729.7	1009.3	1248.9	1378.2
157.5°	703.7	752.7	950.8	1160.9	1248.7
160°	720.4	761.3	911.8	1118.5	1176.3
162.5°	734.3	769.7	870.1	1046.3	1112.3
165°	751.7	772.2	810.9	948.1	1012.8
167.5°	767.7	778.0	815.8	851.8	904.2
170°	776.1	786.3	807.4	842.6	859.6
172.5°	784.5	800.1	796.3	820.3	834.6
175°	793.5	810.5	786.5	790.2	797.0
177.5°	795.6	803.8	798.4	798.6	806.7
180°	790.0	790.0	790.0	790.0	790.0



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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	16.53	17.33	17.53	18.35	19.70	15.45	16.25	16.46	17.27	18.62
	3H	18.19	18.91	19.21	19.93	21.30	16.86	17.58	17.88	18.60	19.97
	4H	18.82	19.50	19.85	20.53	21.91	17.37	18.05	18.40	19.08	20.46
	6H	19.20	19.83	20.24	20.86	22.25	17.69	18.31	18.73	19.35	20.74
	8H	19.33	19.93	20.38	20.98	22.37	17.81	18.41	18.85	19.45	20.84
	12H	19.40	19.97	20.45	21.01	22.42	17.88	18.45	18.93	19.49	20.90
4H	2H	16.93	17.61	17.96	18.64	20.02	16.07	16.75	17.11	17.78	19.16
	3H	18.81	19.38	19.86	20.44	21.83	17.68	18.25	18.73	19.31	20.70
	4H	19.56	20.08	20.61	21.13	22.54	18.29	18.81	19.34	19.85	21.27
	6H	20.06	20.50	21.12	21.57	22.98	18.70	19.14	19.76	20.21	21.62
	8H	20.25	20.66	21.31	21.73	23.15	18.86	19.28	19.93	20.34	21.77
	12H	20.34	20.72	21.42	21.80	23.23	18.97	19.34	20.05	20.42	21.85
8H	4H	19.68	20.10	20.74	21.16	22.59	18.54	18.96	19.61	20.02	21.45
	6H	20.30	20.64	21.38	21.75	23.17	19.07	19.41	20.15	20.52	21.94
	8H	20.58	20.88	21.67	21.97	23.41	19.32	19.62	20.41	20.71	22.15
	12H	20.74	21.00	21.83	22.09	23.57	19.50	19.76	20.59	20.84	22.33
12H	4H	19.65	20.03	20.73	21.11	22.54	18.54	18.92	19.62	20.00	21.43
	6H	20.32	20.62	21.41	21.71	23.15	19.13	19.43	20.22	20.52	21.96
	8H	20.61	20.88	21.71	21.96	23.44	19.41	19.67	20.50	20.76	22.24