

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: P1439464

Luminaire Tested: CB3-B-085U-120D-940-1D-UNV-STD-W-8

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1439464  
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-120D-940-1D-UNV-STD-W-8  
Description: CORELITE BASIC SLOT LED LUMINAIRE, BATWING UPLIGHT  
3-INCH APERTURE  
DOWNLIGHT 1200 LUMENS PER FOOT  
UPLIGHT 850 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

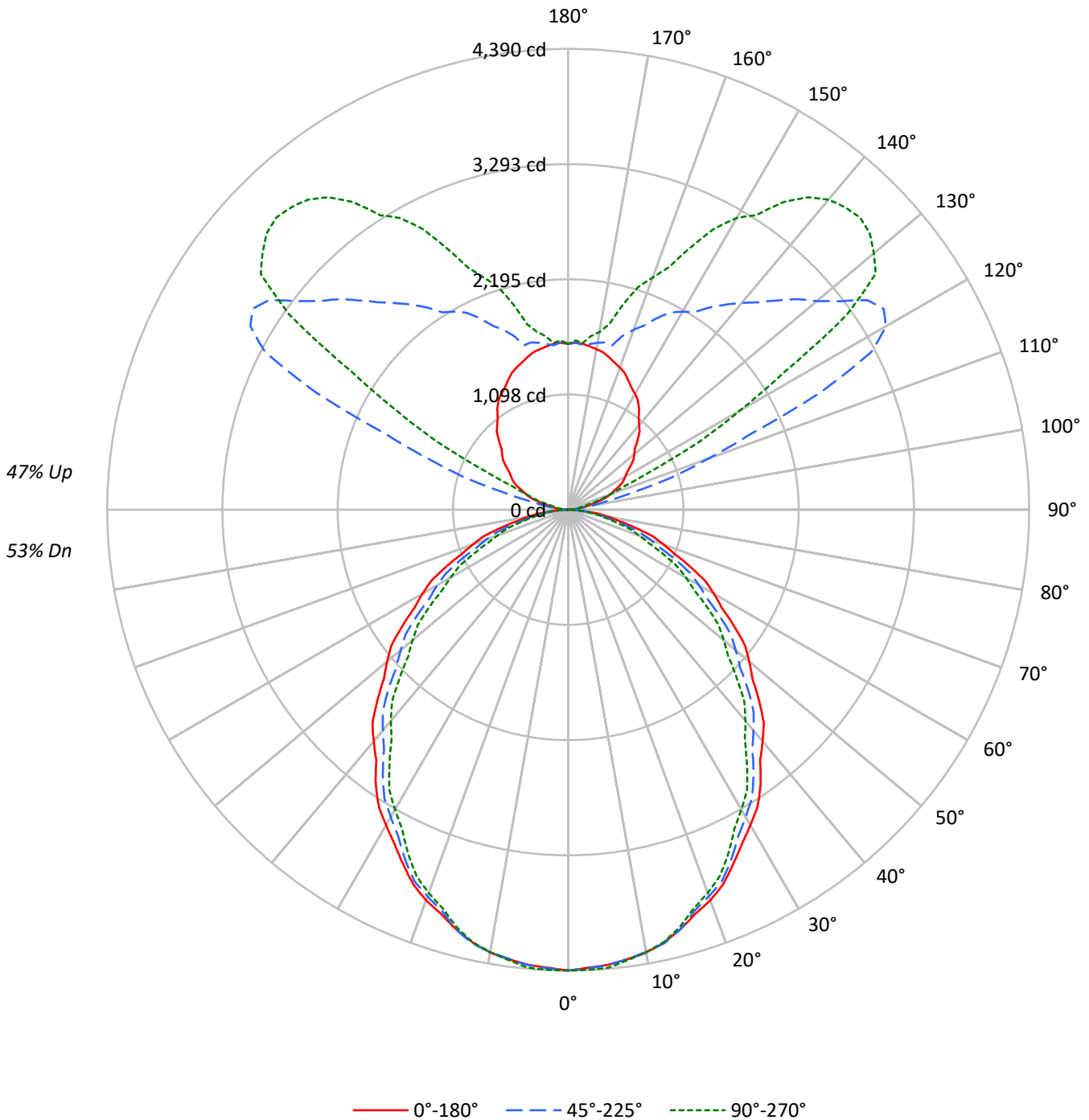
Lumens per Lamp: N/A  
Luminaire Lumens: 19803.1 lumens  
Efficiency: N/A  
Efficacy: 148.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26  
Luminous Opening: Rectangular (W 0.24' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 133.1  
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	0														
RCR																																						
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53																				
1	99	94	91	87	91	88	84	81	75	72	70	63	61	60	52	51	50	45																				
2	90	83	77	71	83	77	72	67	66	62	58	56	53	50	46	44	43	38																				
3	82	73	66	60	76	68	61	56	58	53	49	49	46	43	41	39	36	32																				
4	75	65	57	51	70	60	53	48	52	46	42	44	40	37	37	34	32	28																				
5	69	58	50	44	64	54	47	41	47	41	37	40	35	32	33	30	28	24																				
6	64	52	44	38	59	48	41	36	42	36	32	36	32	28	30	27	24	22																				
7	59	47	39	33	55	44	37	32	38	32	28	33	28	25	28	24	22	19																				
8	55	43	35	30	51	40	33	28	35	29	25	30	26	22	26	22	20	17																				
9	51	39	31	26	47	37	30	25	32	26	23	28	23	20	24	20	18	16																				
10	48	36	29	24	44	34	27	23	29	24	20	26	21	18	22	19	16	14																				

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

	0°	45°	90°
0°	24834	24834	24834
5°	24717	24734	24876
10°	24609	24572	24572
15°	24232	24232	24085
20°	23838	23594	23387
25°	23237	22945	22537
30°	22668	22077	21548
35°	22070	21252	20499
40°	21275	20262	19387
45°	20554	19381	18184
50°	19811	18330	17013
55°	19004	17313	15898
60°	18132	16262	14640
65°	17112	15066	13314
70°	15935	13666	11861
75°	14448	11994	10564
80°	12595	10057	9344
85°	9717	8497	8497

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20554 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	414.2	2.1
10°-20°	1163.6	5.9
20°-30°	1690.6	8.5
30°-40°	1922.1	9.7
40°-50°	1865.9	9.4
50°-60°	1575.4	8.0
60°-70°	1120.8	5.7
70°-80°	598.9	3.0
80°-90°	158.2	0.8
90°-100°	106.8	0.5
100°-110°	559.9	2.8
110°-120°	1409.5	7.1
120°-130°	2174.4	11.0
130°-140°	1990.6	10.1
140°-150°	1469.1	7.4
150°-160°	936.5	4.7
160°-170°	493.0	2.5
170°-180°	153.5	0.8
0°-30°	3268.4	16.5
0°-40°	5190.5	26.2
0°-60°	8631.8	43.6
0°-90°	10509.7	53.1
90°-120°	2076.3	10.5
90°-150°	7710.4	38.9
90°-180°	9293.0	46.9
0°-180°	19803.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4390	4390	4390	4390	4390	
5°	4352	4407	4356	4350	4380	413
15°	4137	4174	4137	4112	4112	1165
25°	3723	3735	3676	3626	3610	1715
35°	3196	3165	3077	2986	2968	1991
45°	2569	2529	2422	2306	2273	1982
55°	1927	1875	1755	1642	1612	1723
65°	1278	1232	1126	1025	995	1266
75°	661	624	549	492	483	705
85°	150	138	131	131	131	177
90°	0	0	0	0	0	8
95°	56	158	63	35	35	71
105°	285	884	640	263	216	305
115°	543	1108	2659	1156	877	529
125°	724	1119	3480	3509	3244	648
135°	933	1246	2819	3844	3933	721
145°	1176	1360	2353	3272	3578	731
155°	1357	1459	2019	2498	2756	626
165°	1504	1544	1622	1896	2026	424
175°	1587	1621	1573	1580	1594	150
180°	1580	1580	1580	1580	1580	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4389.8	4389.8	4389.8	4389.8	4389.8
2.5°	4367.3	4411.2	4372.3	4377.5	4387.3
5°	4352.4	4407.2	4355.5	4350.0	4380.4
7.5°	4318.7	4368.7	4315.0	4302.5	4329.9
10°	4283.8	4338.7	4277.5	4262.3	4277.5
12.5°	4221.4	4278.7	4230.2	4204.9	4217.7
15°	4137.3	4173.8	4137.3	4112.3	4112.3
17.5°	4034.4	4072.8	4003.8	3986.2	3979.5
20°	3959.5	3993.1	3919.0	3893.9	3884.7
22.5°	3859.8	3890.9	3829.2	3786.6	3775.0
25°	3722.6	3734.8	3675.8	3625.6	3610.4
27.5°	3584.8	3587.8	3506.8	3445.9	3425.8
30°	3470.1	3473.1	3379.6	3313.8	3298.6
32.5°	3355.3	3346.2	3257.4	3179.2	3168.9
35°	3195.7	3165.2	3077.2	2986.4	2968.1
37.5°	3003.0	2984.7	2880.8	2789.8	2762.3
40°	2880.8	2850.3	2743.6	2652.6	2625.1
42.5°	2758.6	2723.2	2613.9	2512.8	2483.0
45°	2569.0	2529.4	2422.5	2306.4	2272.8
47.5°	2378.2	2334.9	2217.3	2104.9	2067.7
50°	2251.0	2205.3	2082.7	1972.6	1933.0
52.5°	2121.3	2073.1	1950.5	1838.1	1805.8
55°	1926.8	1874.9	1755.3	1642.4	1611.9
57.5°	1732.2	1681.0	1562.0	1455.2	1418.6
60°	1602.5	1553.7	1437.3	1330.4	1293.9
62.5°	1470.3	1424.0	1310.1	1205.8	1171.6
65°	1278.3	1232.5	1125.5	1025.0	994.6
67.5°	1088.1	1049.1	943.4	851.2	826.8
70°	963.4	926.8	826.2	741.5	717.1
72.5°	843.7	804.6	709.0	636.9	619.8
75°	661.0	624.4	548.7	492.4	483.3
77.5°	493.9	464.0	398.4	366.5	361.7
80°	386.6	359.2	308.7	286.8	286.8
82.5°	286.8	264.3	231.3	222.0	222.0
85°	149.7	137.5	130.9	130.9	130.9
87.5°	44.9	44.9	42.4	39.9	39.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.7	38.5	11.1	5.7	11.1
95°	55.7	157.8	62.6	34.8	34.8
97.5°	115.5	352.4	161.5	86.1	78.0
100°	160.1	500.4	250.6	125.0	111.4
102.5°	210.2	648.5	378.7	169.3	144.8
105°	285.4	884.3	640.4	263.4	215.8
107.5°	368.9	1045.4	1055.2	406.1	327.1
110°	424.6	1112.0	1406.0	533.2	410.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	474.7	1129.4	1873.8	727.1	561.0
115°	542.9	1107.8	2658.9	1156.1	877.0
117.5°	593.0	1054.5	3254.8	1839.2	1418.6
120°	626.4	1055.2	3494.2	2355.9	1886.3
122.5°	665.4	1061.5	3561.0	2869.1	2437.6
125°	723.9	1118.6	3480.3	3509.0	3243.6
127.5°	782.4	1160.8	3263.1	3772.1	3689.1
130°	821.3	1188.9	3090.5	3861.7	3800.5
132.5°	860.3	1217.0	2968.0	3863.8	3895.1
135°	932.7	1245.8	2819.0	3844.2	3932.7
137.5°	1006.5	1281.5	2679.8	3722.5	3906.3
140°	1051.0	1309.7	2568.4	3590.7	3856.1
142.5°	1101.2	1332.6	2462.6	3468.6	3750.3
145°	1176.3	1360.1	2352.7	3271.5	3577.7
147.5°	1234.8	1375.0	2228.8	3072.6	3325.8
150°	1273.8	1375.9	2178.7	2895.7	3208.8
152.5°	1307.2	1403.8	2117.4	2733.6	3019.5
155°	1357.3	1459.4	2018.6	2497.8	2756.4
157.5°	1407.4	1505.4	1901.6	2321.9	2497.4
160°	1440.8	1522.5	1823.7	2237.0	2352.7
162.5°	1468.7	1539.5	1740.1	2092.6	2224.6
165°	1503.5	1544.3	1621.8	1896.2	2025.5
167.5°	1535.5	1555.9	1631.6	1703.5	1808.4
170°	1552.2	1572.6	1614.8	1685.2	1719.3
172.5°	1568.9	1600.2	1592.6	1640.6	1669.1
175°	1587.0	1621.0	1573.1	1580.4	1594.0
177.5°	1591.2	1607.5	1596.7	1597.1	1613.5
180°	1580.0	1580.0	1580.0	1580.0	1580.0



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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	18.59	19.47	19.52	20.42	21.64	17.51	18.39	18.44	19.34	20.57
	3H	20.26	21.04	21.20	22.00	23.25	18.93	19.71	19.87	20.67	21.92
	4H	20.89	21.63	21.85	22.60	23.86	19.44	20.19	20.40	21.15	22.41
	6H	21.28	21.96	22.24	22.93	24.20	19.76	20.45	20.73	21.42	22.69
	8H	21.41	22.06	22.39	23.05	24.32	19.89	20.54	20.86	21.52	22.79
	12H	21.48	22.10	22.46	23.08	24.37	19.96	20.58	20.94	21.56	22.86
4H	2H	19.00	19.74	19.96	20.71	21.97	18.14	18.89	19.11	19.85	21.11
	3H	20.89	21.51	21.87	22.50	23.78	19.76	20.38	20.74	21.37	22.65
	4H	21.64	22.21	22.62	23.19	24.49	20.37	20.94	21.35	21.92	23.22
	6H	22.14	22.63	23.14	23.64	24.94	20.78	21.27	21.78	22.28	23.58
	8H	22.34	22.79	23.33	23.79	25.10	20.95	21.41	21.95	22.41	23.72
	12H	22.43	22.84	23.45	23.86	25.18	21.06	21.47	22.07	22.49	23.80
8H	4H	21.77	22.23	22.77	23.23	24.54	20.63	21.09	21.63	22.09	23.40
	6H	22.39	22.77	23.41	23.81	25.12	21.16	21.54	22.18	22.58	23.89
	8H	22.67	23.00	23.70	24.03	25.36	21.41	21.74	22.44	22.78	24.10
	12H	22.83	23.12	23.86	24.15	25.52	21.59	21.88	22.62	22.91	24.28
12H	4H	21.74	22.16	22.76	23.17	24.49	20.63	21.05	21.65	22.06	23.38
	6H	22.41	22.74	23.44	23.77	25.10	21.22	21.55	22.25	22.58	23.91
	8H	22.71	23.00	23.74	24.02	25.40	21.50	21.79	22.53	22.82	24.19