

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: P1439068

Luminaire Tested: CB2-D-085U-120D-930-1D-UNV-STD-W-8

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1439068  
REPORT IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2312-242-13, G2-2312-242-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/31/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB2-D-085U-120D-930-1D-UNV-STD-W-8  
Description: CORELITE BASIC SLOT LED LUMINAIRE, DIFFUSER DUST COVER UPLIGHT  
2-INCH APERTURE  
DOWNLIGHT 1200 LUMENS PER FOOT  
UPLIGHT 850 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

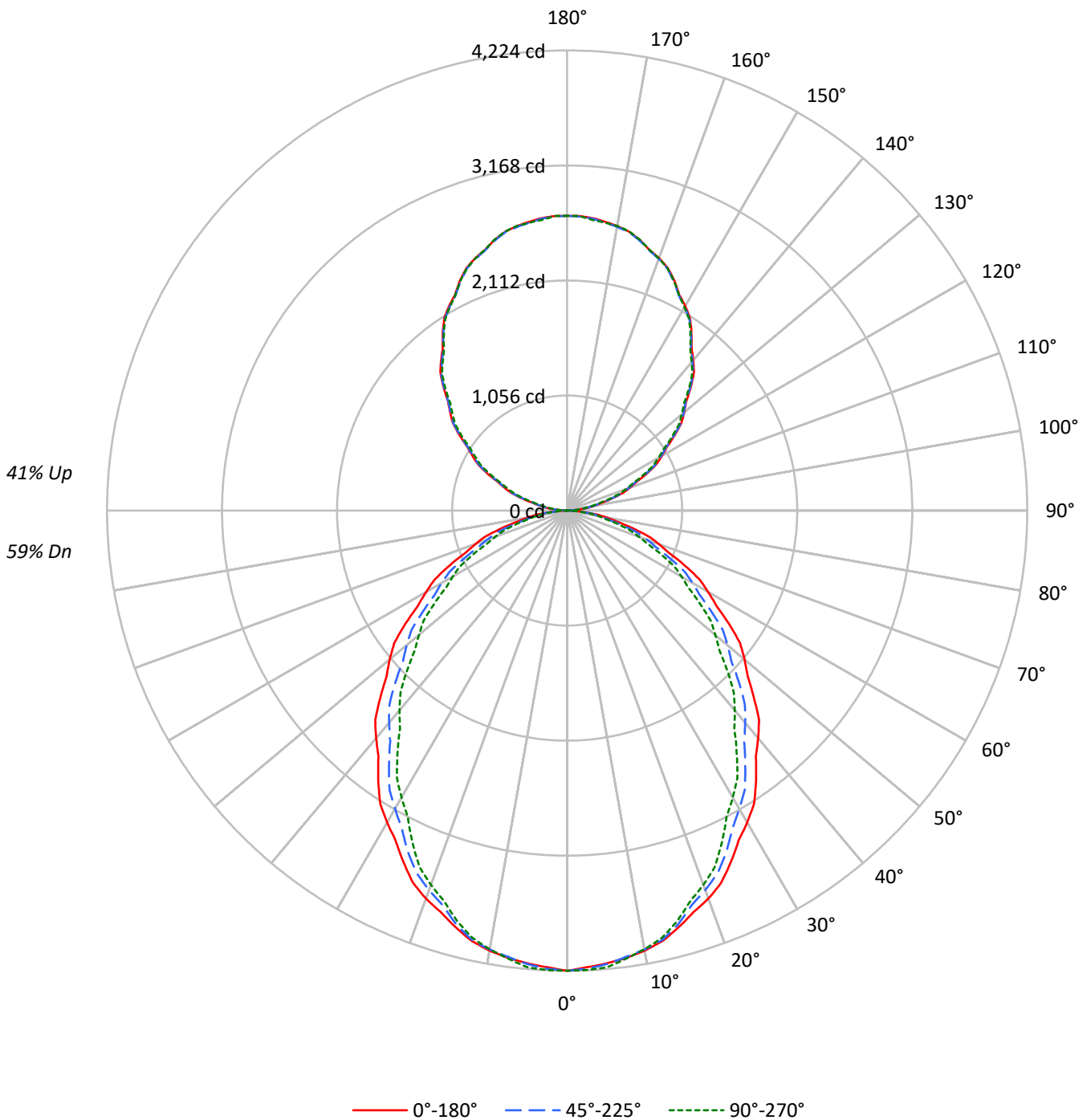
Lumens per Lamp: N/A  
Luminaire Lumens: 16750.2 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 146  
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	57	56	55	50
2	91	84	78	73	85	78	73	69	68	64	61	59	56	53	51	48	46	42
3	83	74	67	61	78	69	63	58	61	56	51	52	49	45	45	42	40	36
4	76	66	58	52	71	62	54	49	54	48	44	47	43	39	40	37	34	31
5	70	59	50	44	65	55	48	42	48	43	38	42	38	34	36	33	30	27
6	65	53	45	39	60	50	42	37	44	38	33	38	34	30	33	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	30	27	24	21
8	56	43	36	30	52	41	34	29	36	31	26	32	27	24	28	24	21	19
9	52	40	32	27	49	38	31	26	33	28	24	30	25	22	26	22	19	17
10	49	37	29	24	46	35	28	23	31	25	22	27	23	20	24	20	18	16

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

	0°	45°	90°
0°	36786	36786	36786
5°	36475	36532	36786
10°	36267	36181	36153
15°	35693	35459	35168
20°	35131	34351	33872
25°	34187	33224	32291
30°	33241	31777	30573
35°	32151	30294	28850
40°	30997	28901	27210
45°	29837	27446	25613
50°	28790	26029	24058
55°	27501	24554	22589
60°	26027	23153	21125
65°	24460	21594	19661
70°	22730	19848	17788
75°	20677	17958	16107
80°	18491	15732	14599
85°	14219	12930	10662

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 29837 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.2	2.4
10°-20°	1107.3	6.6
20°-30°	1592.1	9.5
30°-40°	1789.5	10.7
40°-50°	1728.7	10.3
50°-60°	1460.6	8.7
60°-70°	1049.1	6.3
70°-80°	573.4	3.4
80°-90°	152.4	0.9
90°-100°	104.5	0.6
100°-110°	431.1	2.6
110°-120°	782.5	4.7
120°-130°	1064.8	6.4
130°-140°	1229.2	7.3
140°-150°	1238.7	7.4
150°-160°	1069.0	6.4
160°-170°	724.5	4.3
170°-180°	255.6	1.5
0°-30°	3096.7	18.5
0°-40°	4886.2	29.2
0°-60°	8075.4	48.2
0°-90°	9850.4	58.8
90°-120°	1318.1	7.9
90°-150°	4850.8	29.0
90°-180°	6900.0	41.2
0°-180°	16750.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4224	4224	4224	4224	4224	
5°	4172	4229	4179	4180	4208	396
15°	3959	3994	3933	3894	3901	1116
25°	3558	3561	3458	3380	3360	1638
35°	3024	2989	2850	2739	2714	1889
45°	2423	2372	2228	2111	2080	1872
55°	1811	1745	1617	1516	1488	1619
65°	1187	1143	1048	973	954	1177
75°	614	577	534	491	479	657
85°	142	133	129	113	107	169
90°	0	0	2	0	2	9
95°	101	89	84	65	65	118
105°	426	420	409	386	382	452
115°	810	808	794	770	768	800
125°	1205	1217	1192	1167	1169	1076
135°	1606	1625	1598	1568	1579	1237
145°	1990	2013	1982	1959	1973	1243
155°	2328	2350	2317	2303	2321	1070
165°	2572	2599	2566	2552	2575	724
175°	2695	2724	2689	2672	2678	256
180°	2706	2706	2706	2706	2706	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4224.1	4224.1	4224.1	4224.1	4224.1
2.5°	4195.7	4246.3	4208.6	4214.0	4221.5
5°	4172.4	4229.3	4178.9	4179.5	4208.0
7.5°	4142.6	4196.4	4132.9	4121.2	4147.8
10°	4101.2	4155.0	4091.5	4069.3	4088.3
12.5°	4046.9	4098.1	4037.2	4002.0	4018.4
15°	3958.9	3993.7	3933.0	3894.4	3900.7
17.5°	3863.2	3884.7	3797.2	3764.7	3758.4
20°	3790.7	3809.7	3706.6	3661.2	3654.9
22.5°	3697.6	3714.0	3605.7	3549.9	3541.0
25°	3557.8	3561.0	3457.6	3379.5	3360.5
27.5°	3411.7	3401.5	3286.8	3194.4	3169.7
30°	3305.6	3292.9	3160.0	3062.5	3040.3
32.5°	3191.7	3168.9	3035.8	2930.5	2908.4
35°	3024.2	2989.4	2849.5	2739.0	2713.7
37.5°	2845.6	2806.4	2669.0	2548.7	2520.2
40°	2726.6	2682.3	2542.2	2421.9	2393.5
42.5°	2607.6	2558.2	2415.5	2295.1	2264.1
45°	2422.6	2372.0	2228.5	2111.3	2079.7
47.5°	2246.6	2182.1	2042.9	1926.3	1894.7
50°	2125.0	2055.4	1921.2	1807.3	1775.7
52.5°	2000.8	1928.7	1799.6	1690.9	1659.2
55°	1811.3	1744.9	1617.2	1516.3	1487.8
57.5°	1623.7	1559.8	1443.2	1346.8	1319.0
60°	1494.3	1440.5	1329.3	1238.2	1212.9
62.5°	1370.1	1321.4	1215.5	1132.1	1106.8
65°	1187.0	1142.8	1047.9	973.1	954.1
67.5°	1009.1	964.9	888.2	821.1	799.5
70°	892.7	848.4	779.5	717.6	698.6
72.5°	781.4	734.6	678.6	622.0	608.1
75°	614.5	576.6	533.7	491.3	478.7
77.5°	467.0	430.4	399.1	369.3	366.1
80°	368.7	337.1	313.7	294.3	291.1
82.5°	275.6	251.5	236.1	221.9	221.2
85°	142.3	132.8	129.4	113.1	106.7
87.5°	41.4	41.4	36.6	31.1	31.5
90°	0.0	0.0	2.1	0.0	2.1
92.5°	25.3	22.0	20.7	13.6	15.6
95°	101.3	88.9	84.4	65.4	65.4
97.5°	191.2	178.8	172.2	152.7	148.6
100°	255.4	243.0	236.4	215.2	211.0
102.5°	321.2	315.4	303.9	281.0	276.9
105°	426.3	420.1	409.4	386.1	382.0
107.5°	534.3	535.6	519.6	500.4	494.7
110°	612.0	609.9	597.2	578.1	574.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	691.4	687.6	674.9	655.8	651.7
115°	810.4	808.3	793.5	770.2	768.2
117.5°	923.5	930.1	912.5	888.0	887.2
120°	1004.5	1012.8	991.9	970.7	966.5
122.5°	1083.9	1093.8	1072.9	1048.4	1049.3
125°	1205.0	1217.4	1192.4	1167.1	1169.1
127.5°	1321.9	1337.2	1313.9	1288.2	1290.7
130°	1401.3	1419.9	1395.0	1367.6	1371.7
132.5°	1482.3	1500.9	1476.0	1447.0	1454.5
135°	1606.0	1624.6	1597.5	1568.2	1578.6
137.5°	1722.5	1741.1	1711.5	1686.9	1699.3
140°	1800.1	1818.7	1787.5	1764.5	1776.9
142.5°	1876.1	1898.0	1865.1	1840.6	1856.3
145°	1990.1	2012.8	1981.6	1958.7	1973.2
147.5°	2098.1	2120.8	2089.3	2067.2	2082.1
150°	2167.3	2190.0	2156.8	2138.2	2154.7
152.5°	2231.5	2257.5	2222.6	2204.1	2225.6
155°	2327.7	2350.4	2317.2	2302.8	2321.4
157.5°	2411.3	2437.7	2404.6	2392.2	2407.1
160°	2467.0	2491.8	2458.6	2446.3	2462.8
162.5°	2509.2	2535.6	2504.2	2490.3	2510.1
165°	2572.5	2599.4	2566.2	2552.0	2574.6
167.5°	2622.3	2650.8	2617.3	2602.6	2625.7
170°	2652.7	2679.6	2644.3	2628.0	2652.7
172.5°	2673.0	2701.5	2664.6	2648.0	2664.6
175°	2694.9	2723.8	2688.6	2671.9	2678.1
177.5°	2705.5	2728.6	2700.4	2685.7	2705.5
180°	2705.5	2705.5	2705.5	2705.5	2705.5

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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	20.30	21.24	21.18	22.14	23.28	19.20	20.14	20.08	21.04	22.18
	3H	21.95	22.79	22.85	23.70	24.87	20.74	21.57	21.63	22.48	23.65
	4H	22.59	23.38	23.49	24.29	25.47	21.31	22.10	22.22	23.02	24.19
	6H	22.99	23.72	23.91	24.64	25.83	21.69	22.42	22.61	23.34	24.53
	8H	23.14	23.84	24.07	24.77	25.96	21.83	22.52	22.76	23.46	24.65
	12H	23.22	23.88	24.15	24.81	26.02	21.90	22.56	22.83	23.49	24.70
4H	2H	20.72	21.51	21.64	22.43	23.60	19.85	20.64	20.76	21.55	22.73
	3H	22.60	23.26	23.52	24.20	25.39	21.59	22.25	22.51	23.19	24.38
	4H	23.35	23.95	24.28	24.89	26.10	22.27	22.87	23.20	23.81	25.02
	6H	23.87	24.39	24.82	25.35	26.57	22.74	23.26	23.69	24.23	25.44
	8H	24.08	24.56	25.03	25.52	26.75	22.94	23.42	23.89	24.38	25.61
	12H	24.19	24.62	25.16	25.60	26.83	23.03	23.46	24.00	24.44	25.67
8H	4H	23.51	23.99	24.46	24.95	26.18	22.54	23.03	23.49	23.99	25.22
	6H	24.15	24.55	25.13	25.55	26.78	23.15	23.55	24.13	24.55	25.78
	8H	24.44	24.80	25.43	25.79	27.03	23.43	23.78	24.41	24.77	26.02
	12H	24.62	24.93	25.61	25.91	27.21	23.58	23.89	24.57	24.87	26.17
12H	4H	23.49	23.93	24.46	24.90	26.14	22.55	22.99	23.52	23.96	25.20
	6H	24.18	24.54	25.17	25.52	26.77	23.22	23.57	24.20	24.56	25.80
	8H	24.50	24.81	25.49	25.80	27.09	23.52	23.84	24.51	24.82	26.11