

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: P1438702

Luminaire Tested: CB2-085U-030D-840-1D-UNV-STD-W-8

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438702  
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-840-1D-UNV-STD-W-8  
Description: CORELITE BASIC SLOT LED LUMINAIRE, OPEN UPLIGHT  
2-INCH APERTURE  
DOWNLIGHT 300 LUMENS PER FOOT  
UPLIGHT 850 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

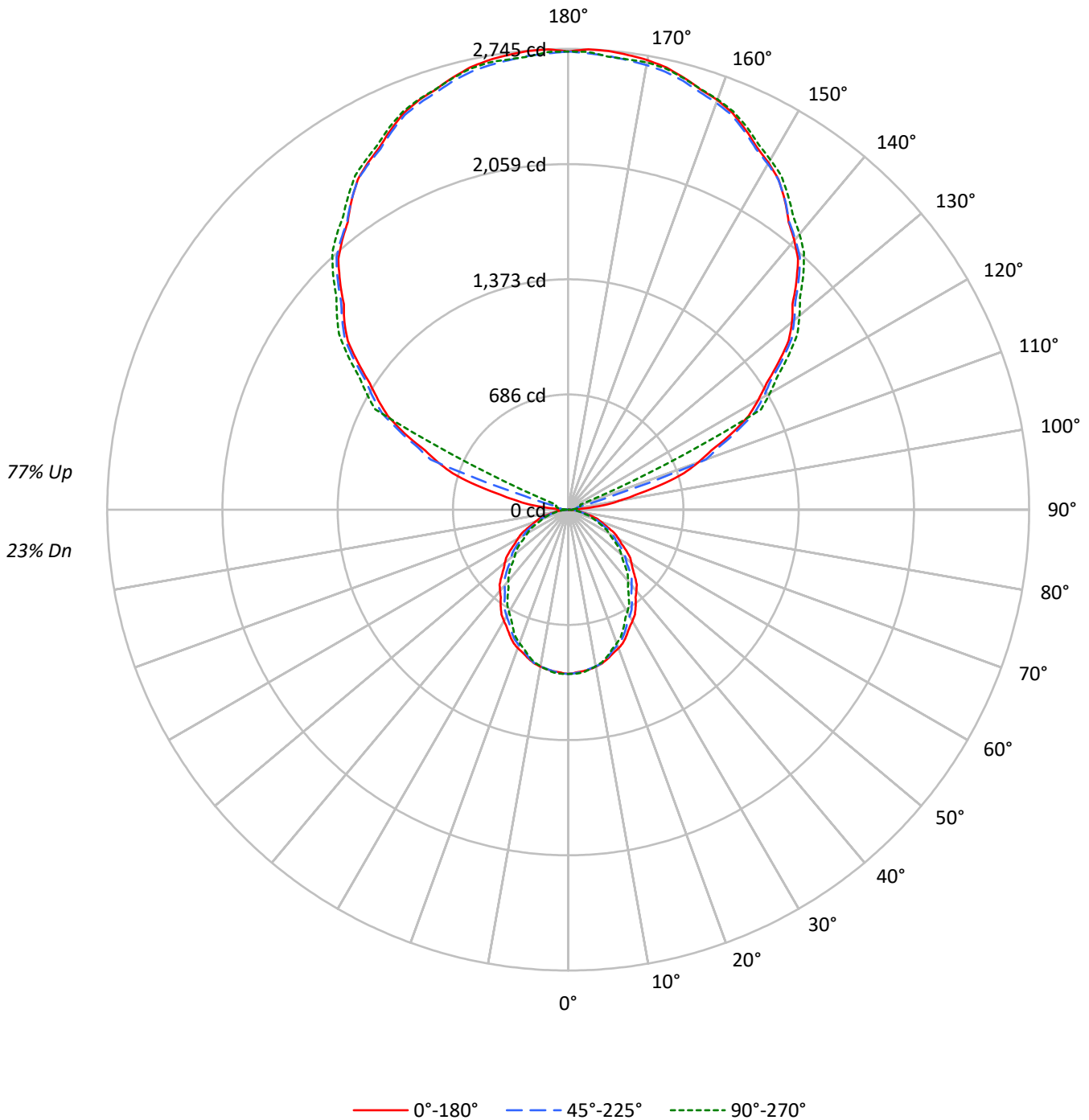
Lumens per Lamp: N/A  
Luminaire Lumens: 10063.3 lumens  
Efficiency: N/A  
Efficacy: 132.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 76  
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	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°	8521	8521	8521
5°	8448	8461	8520
10°	8400	8380	8373
15°	8267	8213	8145
20°	8137	7956	7845
25°	7918	7695	7479
30°	7699	7360	7081
35°	7446	7017	6682
40°	7179	6694	6303
45°	6910	6356	5933
50°	6668	6029	5572
55°	6369	5688	5232
60°	6028	5363	4893
65°	5665	5001	4554
70°	5266	4596	4120
75°	4788	4159	3732
80°	4283	3646	3380
85°	3297	2998	2468

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6910 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.0	0.9
10°-20°	256.5	2.5
20°-30°	368.8	3.7
30°-40°	414.5	4.1
40°-50°	400.4	4.0
50°-60°	338.3	3.4
60°-70°	243.0	2.4
70°-80°	132.8	1.3
80°-90°	35.4	0.4
90°-100°	47.6	0.5
100°-110°	302.7	3.0
110°-120°	961.8	9.6
120°-130°	1395.7	13.9
130°-140°	1501.0	14.9
140°-150°	1413.3	14.0
150°-160°	1151.3	11.4
160°-170°	749.4	7.4
170°-180°	259.0	2.6
0°-30°	717.2	7.1
0°-40°	1131.7	11.2
0°-60°	1870.4	18.6
0°-90°	2281.6	22.7
90°-120°	1312.0	13.0
90°-150°	5622.0	55.9
90°-180°	7782.0	77.3
0°-180°	10063.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	978	978	978	978	978	
5°	966	980	968	968	975	92
15°	917	925	911	902	903	258
25°	824	825	801	783	778	379
35°	700	692	660	634	628	438
45°	561	549	516	489	482	433
55°	420	404	375	351	345	375
65°	275	265	243	225	221	273
75°	142	134	124	114	111	152
85°	33	31	30	26	25	39
90°	0	0	0	2	2	5
95°	108	31	34	22	20	137
105°	568	590	59	69	73	599
115°	1076	1099	1109	1122	643	1057
125°	1527	1554	1555	1581	1602	1365
135°	1922	1945	1942	1954	1979	1482
145°	2250	2267	2252	2254	2283	1406
155°	2498	2514	2486	2481	2516	1152
165°	2664	2672	2644	2633	2660	752
175°	2743	2749	2713	2696	2709	261
180°	2729	2729	2729	2729	2729	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	978.4	978.4	978.4	978.4	978.4
2.5°	971.8	983.5	974.8	976.0	977.8
5°	966.4	979.6	967.9	968.0	974.6
7.5°	959.5	971.9	957.2	954.5	960.7
10°	949.9	962.3	947.6	942.5	946.9
12.5°	937.3	949.2	935.1	926.9	930.7
15°	916.9	925.0	910.9	902.0	903.4
17.5°	894.8	899.7	879.5	872.0	870.5
20°	878.0	882.4	858.5	848.0	846.5
22.5°	856.4	860.2	835.1	822.2	820.1
25°	824.0	824.8	800.8	782.7	778.3
27.5°	790.2	787.8	761.3	739.9	734.1
30°	765.6	762.7	731.9	709.3	704.2
32.5°	739.2	734.0	703.1	678.7	673.6
35°	700.4	692.4	660.0	634.4	628.5
37.5°	659.1	650.0	618.2	590.3	583.7
40°	631.5	621.3	588.8	560.9	554.4
42.5°	603.9	592.5	559.4	531.6	524.4
45°	561.1	549.4	516.1	489.0	481.7
47.5°	520.3	505.4	473.1	446.2	438.8
50°	492.2	476.1	445.0	418.6	411.3
52.5°	463.4	446.7	416.8	391.6	384.3
55°	419.5	404.1	374.6	351.2	344.6
57.5°	376.1	361.3	334.3	311.9	305.5
60°	346.1	333.6	307.9	286.8	280.9
62.5°	317.3	306.1	281.5	262.2	256.4
65°	274.9	264.7	242.7	225.4	221.0
67.5°	233.7	223.5	205.7	190.2	185.2
70°	206.8	196.5	180.5	166.2	161.8
72.5°	181.0	170.1	157.2	144.1	140.8
75°	142.3	133.5	123.6	113.8	110.9
77.5°	108.2	99.7	92.4	85.5	84.8
80°	85.4	78.1	72.7	68.2	67.4
82.5°	63.8	58.3	54.7	51.4	51.2
85°	33.0	30.8	30.0	26.2	24.7
87.5°	9.6	9.6	8.4	7.6	7.6
90°	0.0	0.0	0.0	2.0	2.0
92.5°	30.0	11.5	7.9	11.4	11.4
95°	108.5	31.4	33.5	21.7	19.7
97.5°	225.4	50.5	48.5	53.3	55.3
100°	313.8	103.4	53.3	61.2	63.1
102.5°	411.6	389.6	54.9	66.0	69.5
105°	568.3	589.5	59.2	69.2	73.0
107.5°	722.2	743.5	275.5	71.5	75.4
110°	824.9	846.1	872.2	73.1	77.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	921.2	947.0	966.9	162.7	80.1
115°	1075.5	1098.6	1109.0	1121.8	643.3
117.5°	1211.6	1240.2	1251.9	1274.1	1295.7
120°	1306.4	1333.4	1341.9	1364.1	1387.3
122.5°	1399.5	1423.4	1428.7	1454.1	1475.7
125°	1527.4	1554.4	1555.0	1581.1	1602.4
127.5°	1655.2	1678.4	1677.3	1696.8	1720.4
130°	1740.5	1755.9	1756.3	1772.6	1797.7
132.5°	1811.5	1833.1	1833.6	1846.8	1871.9
135°	1922.0	1945.2	1941.8	1954.2	1979.3
137.5°	2025.8	2048.2	2042.0	2052.5	2078.3
140°	2093.7	2113.0	2103.6	2114.1	2143.0
142.5°	2156.9	2176.2	2162.0	2171.0	2201.5
145°	2249.6	2267.0	2251.6	2254.2	2283.2
147.5°	2332.1	2349.1	2330.5	2333.1	2360.1
150°	2385.8	2401.2	2377.9	2380.5	2407.5
152.5°	2433.1	2447.0	2422.1	2421.6	2453.3
155°	2498.2	2513.7	2486.4	2481.3	2516.0
157.5°	2557.4	2571.7	2544.4	2540.7	2567.7
160°	2596.9	2606.6	2579.2	2573.8	2600.9
162.5°	2623.8	2634.9	2607.6	2599.1	2626.1
165°	2664.0	2671.7	2644.3	2633.0	2660.1
167.5°	2698.7	2707.6	2672.3	2662.3	2691.2
170°	2719.3	2725.1	2689.7	2676.5	2705.4
172.5°	2731.9	2736.1	2700.7	2685.8	2705.4
175°	2742.9	2748.7	2713.3	2695.9	2709.4
177.5°	2744.9	2748.0	2721.2	2706.0	2729.1
180°	2729.1	2729.1	2729.1	2729.1	2729.1



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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	11.10	11.76	12.27	12.91	14.52	10.00	10.66	11.17	11.81	13.42
	3H	12.73	13.32	13.90	14.48	16.11	11.52	12.10	12.69	13.26	14.89
	4H	13.35	13.91	14.53	15.07	16.70	12.08	12.64	13.26	13.79	15.43
	6H	13.74	14.26	14.93	15.41	17.06	12.44	12.95	13.63	14.11	15.76
	8H	13.89	14.37	15.07	15.55	17.18	12.58	13.06	13.76	14.23	15.87
	12H	13.95	14.42	15.15	15.58	17.24	12.63	13.09	13.82	14.26	15.92
4H	2H	11.49	12.05	12.68	13.20	14.84	10.61	11.17	11.80	12.33	13.96
	3H	13.34	13.80	14.53	14.98	16.63	12.33	12.79	13.52	13.98	15.62
	4H	14.08	14.50	15.27	15.67	17.34	13.00	13.42	14.19	14.59	16.26
	6H	14.58	14.95	15.78	16.14	17.79	13.46	13.82	14.65	15.02	16.67
	8H	14.78	15.13	15.98	16.31	17.98	13.64	13.99	14.84	15.17	16.84
	12H	14.88	15.19	16.09	16.38	18.06	13.72	14.03	14.93	15.22	16.90
8H	4H	14.22	14.56	15.41	15.74	17.41	13.25	13.59	14.45	14.78	16.45
	6H	14.85	15.13	16.06	16.36	18.02	13.85	14.13	15.06	15.35	17.02
	8H	15.14	15.38	16.36	16.58	18.27	14.12	14.37	15.34	15.57	17.26
	12H	15.30	15.52	16.53	16.72	18.44	14.26	14.48	15.48	15.68	17.39
12H	4H	14.19	14.50	15.40	15.69	17.36	13.25	13.56	14.46	14.75	16.42
	6H	14.88	15.12	16.10	16.32	18.01	13.91	14.15	15.13	15.36	17.04
	8H	15.18	15.40	16.41	16.60	18.32	14.21	14.42	15.43	15.62	17.34