

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: P1439584

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

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1439584  
REPORT IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2312-242-3, G2-2312-242-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/31/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB3-D-085U-085D-940-1D-UNV-STD-W-8  
Description: CORELITE BASIC SLOT LED LUMINAIRE, DIFFUSER DUST COVER UPLIGHT  
3-INCH APERTURE  
DOWNLIGHT 850 LUMENS PER FOOT  
UPLIGHT 850 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

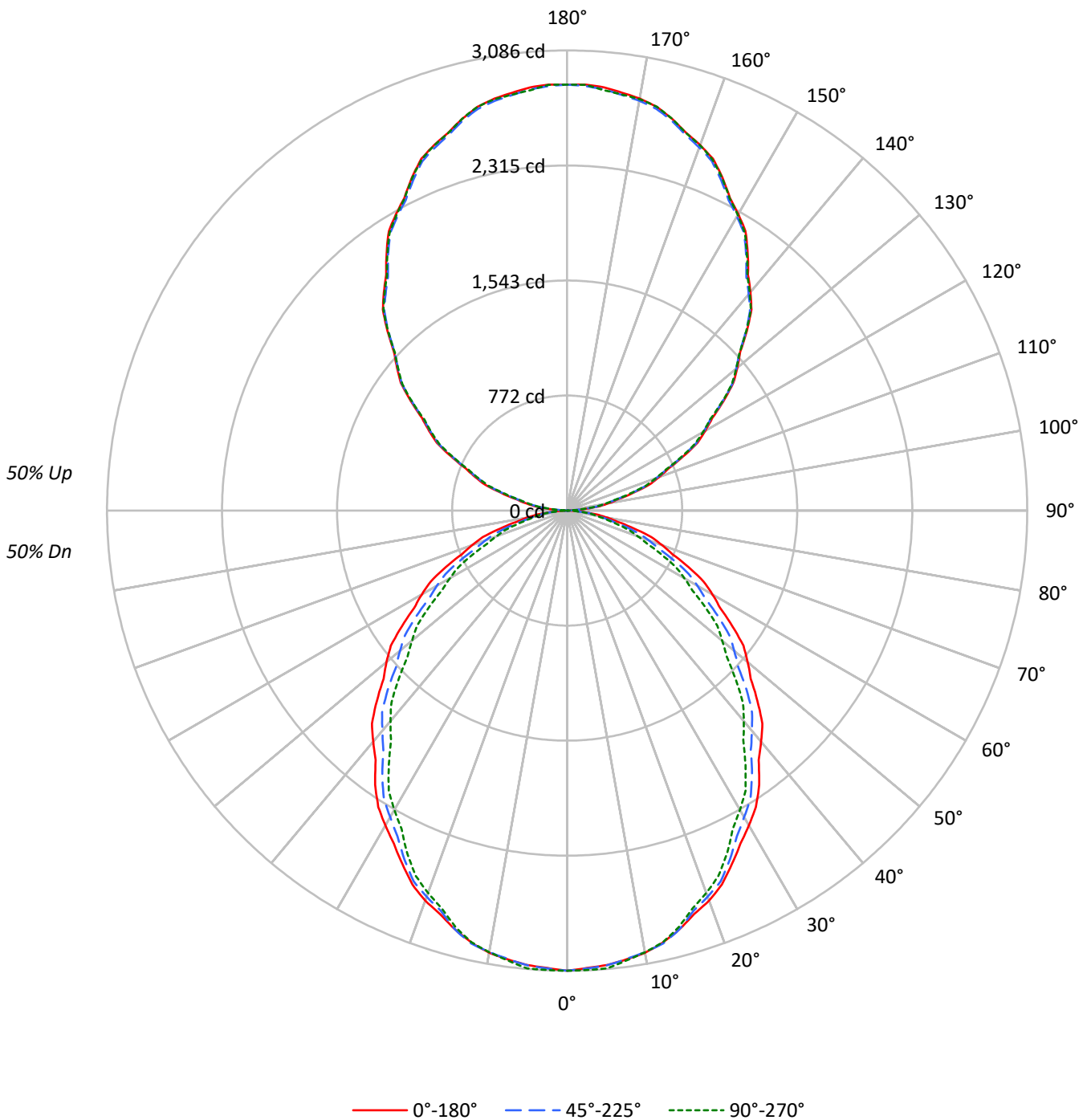
Lumens per Lamp: N/A  
Luminaire Lumens: 14745.3 lumens  
Efficiency: N/A  
Efficacy: 136.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26  
Luminous Opening: Rectangular (W 0.24' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 108.3  
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	0														
RCR																																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50																				
1	98	94	90	86	90	87	83	80	73	71	69	61	60	58	50	49	48	43																				
2	89	82	76	71	82	76	71	66	65	61	57	54	51	49	44	42	41	36																				
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35	31																				
4	75	64	56	50	69	59	53	47	51	46	41	43	39	36	35	32	30	26																				
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23																				
6	63	51	43	38	58	48	41	35	41	35	31	35	30	27	29	26	23	20																				
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18																				
8	54	42	34	29	50	39	32	28	34	29	25	29	25	22	24	21	19	16																				
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15																				
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	13																				

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

	0°	45°	90°
0°	17458	17458	17458
5°	17375	17388	17500
10°	17299	17274	17274
15°	17035	17035	16932
20°	16758	16587	16429
25°	16323	16118	15831
30°	15924	15509	15136
35°	15504	14929	14400
40°	14945	14233	13619
45°	14439	13615	12774
50°	13917	12876	11951
55°	13350	12161	11168
60°	12737	11423	10284
65°	12020	10583	9352
70°	11193	9600	8332
75°	10149	8426	7421
80°	8848	7063	6565
85°	6822	5972	5972

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14439 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	291.2	2.0
10°-20°	818.0	5.5
20°-30°	1187.8	8.1
30°-40°	1350.2	9.2
40°-50°	1310.8	8.9
50°-60°	1106.6	7.5
60°-70°	787.3	5.3
70°-80°	420.7	2.9
80°-90°	111.1	0.8
90°-100°	120.7	0.8
100°-110°	472.2	3.2
110°-120°	841.7	5.7
120°-130°	1139.0	7.7
130°-140°	1309.4	8.9
140°-150°	1314.0	8.9
150°-160°	1130.0	7.7
160°-170°	764.9	5.2
170°-180°	269.8	1.8
0°-30°	2297.0	15.6
0°-40°	3647.2	24.7
0°-60°	6064.6	41.1
0°-90°	7383.8	50.1
90°-120°	1434.5	9.7
90°-150°	5196.9	35.2
90°-180°	7362.0	49.9
0°-180°	14745.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3086	3086	3086	3086	3086	
5°	3060	3098	3062	3058	3082	290
15°	2908	2934	2908	2891	2891	819
25°	2615	2624	2582	2547	2536	1205
35°	2245	2224	2162	2098	2085	1399
45°	1805	1777	1702	1620	1597	1392
55°	1354	1317	1233	1154	1132	1210
65°	898	866	791	720	699	889
75°	464	439	386	346	340	495
85°	105	97	92	92	92	125
90°	0	0	0	0	0	9
95°	116	105	94	88	90	132
105°	458	456	440	434	429	489
115°	858	863	843	841	839	851
125°	1279	1294	1268	1264	1266	1144
135°	1704	1721	1693	1680	1697	1314
145°	2111	2128	2094	2083	2102	1319
155°	2464	2485	2444	2434	2460	1133
165°	2720	2744	2707	2692	2720	766
175°	2849	2875	2836	2819	2830	270
180°	2856	2856	2856	2856	2856	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3085.9	3085.9	3085.9	3085.9	3085.9
2.5°	3070.1	3100.9	3073.6	3077.3	3084.1
5°	3059.6	3098.1	3061.8	3057.9	3081.5
7.5°	3035.9	3071.1	3033.3	3024.6	3043.8
10°	3011.4	3050.0	3007.0	2996.3	3007.0
12.5°	2967.6	3007.9	2973.7	2956.0	2965.0
15°	2908.5	2934.2	2908.5	2891.0	2891.0
17.5°	2836.2	2863.2	2814.7	2802.4	2797.2
20°	2783.6	2807.2	2755.2	2737.5	2728.9
22.5°	2713.6	2735.4	2692.1	2660.4	2651.8
25°	2615.0	2623.6	2582.1	2546.9	2536.2
27.5°	2518.2	2520.3	2463.4	2420.6	2406.5
30°	2437.6	2439.7	2374.1	2327.9	2317.1
32.5°	2357.0	2350.6	2288.2	2233.3	2226.0
35°	2244.9	2223.5	2161.6	2097.8	2085.0
37.5°	2109.5	2096.7	2023.7	1959.7	1940.4
40°	2023.7	2002.3	1927.3	1863.4	1844.1
42.5°	1937.8	1913.0	1836.2	1765.2	1744.2
45°	1804.7	1776.8	1701.7	1620.2	1596.6
47.5°	1670.6	1640.2	1557.6	1478.6	1452.5
50°	1581.3	1549.1	1463.0	1385.7	1357.9
52.5°	1490.2	1456.3	1370.1	1291.2	1268.5
55°	1353.5	1317.1	1233.0	1153.7	1132.3
57.5°	1216.8	1180.9	1097.2	1022.2	996.5
60°	1125.7	1091.5	1009.6	934.6	908.9
62.5°	1032.9	1000.3	920.3	847.0	823.0
65°	897.9	865.8	790.6	720.1	698.6
67.5°	764.4	736.9	662.7	598.0	580.8
70°	676.7	651.0	580.4	520.9	503.7
72.5°	592.6	565.2	498.0	447.4	435.4
75°	464.3	438.6	385.5	345.9	339.5
77.5°	346.9	325.9	279.9	257.5	254.1
80°	271.6	252.3	216.8	201.5	201.5
82.5°	201.5	185.6	162.5	155.9	155.9
85°	105.1	96.6	92.0	92.0	92.0
87.5°	31.5	31.5	29.8	28.0	28.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	31.5	28.1	17.5	14.0	14.0
95°	116.1	105.4	94.2	87.7	89.8
97.5°	214.2	203.9	190.1	183.6	185.3
100°	282.5	274.0	258.4	251.9	251.9
102.5°	349.1	344.0	328.5	322.0	323.7
105°	457.7	455.6	440.2	433.5	429.3
107.5°	577.8	573.9	556.7	556.2	552.3
110°	654.8	652.7	637.3	635.1	632.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	733.7	736.7	719.7	717.4	715.3
115°	858.5	862.8	843.2	841.0	838.8
117.5°	986.4	992.4	971.5	969.3	965.4
120°	1068.8	1081.6	1055.6	1053.4	1051.3
122.5°	1152.9	1164.0	1139.7	1135.8	1135.4
125°	1279.0	1294.0	1268.1	1263.7	1265.9
127.5°	1405.2	1420.6	1396.4	1387.8	1392.5
130°	1489.3	1506.4	1480.5	1471.9	1478.3
132.5°	1575.1	1592.3	1566.4	1557.8	1567.7
135°	1703.9	1721.0	1693.0	1680.2	1697.3
137.5°	1829.6	1844.6	1813.9	1805.1	1823.1
140°	1912.0	1927.0	1894.5	1884.0	1905.4
142.5°	1992.6	2009.3	1973.3	1962.9	1986.0
145°	2111.3	2128.4	2093.8	2083.2	2102.5
147.5°	2225.2	2242.7	2207.6	2195.4	2215.1
150°	2295.2	2314.5	2277.7	2267.3	2288.7
152.5°	2363.6	2384.6	2346.1	2334.0	2360.5
155°	2463.9	2485.3	2444.2	2433.8	2459.5
157.5°	2554.1	2573.8	2536.6	2526.1	2548.4
160°	2608.4	2629.8	2590.9	2580.5	2606.2
162.5°	2655.7	2677.2	2641.7	2627.8	2653.5
165°	2720.1	2743.7	2707.0	2692.3	2720.1
167.5°	2774.0	2799.3	2760.4	2747.0	2774.9
170°	2805.5	2829.1	2790.2	2773.3	2801.2
172.5°	2826.6	2850.1	2811.2	2794.2	2813.4
175°	2849.3	2875.0	2836.2	2818.9	2829.6
177.5°	2859.4	2880.0	2848.9	2833.7	2857.7
180°	2855.9	2855.9	2855.9	2855.9	2855.9



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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	17.09	17.94	18.05	18.91	20.18	16.01	16.86	16.97	17.83	19.11
	3H	18.75	19.52	19.72	20.50	21.79	17.42	18.19	18.39	19.17	20.46
	4H	19.38	20.11	20.37	21.09	22.39	17.94	18.66	18.92	19.65	20.95
	6H	19.77	20.43	20.76	21.42	22.74	18.26	18.92	19.25	19.91	21.23
	8H	19.91	20.54	20.91	21.55	22.86	18.38	19.01	19.38	20.02	21.33
	12H	19.97	20.57	20.98	21.58	22.91	18.46	19.06	19.46	20.06	21.39
4H	2H	17.50	18.22	18.49	19.20	20.50	16.64	17.36	17.63	18.34	19.65
	3H	19.38	19.99	20.38	21.00	22.32	18.26	18.86	19.25	19.87	21.19
	4H	20.13	20.68	21.14	21.69	23.03	18.86	19.41	19.87	20.42	21.76
	6H	20.63	21.11	21.65	22.14	23.47	19.27	19.75	20.29	20.78	22.11
	8H	20.83	21.27	21.85	22.29	23.64	19.44	19.88	20.46	20.91	22.26
	12H	20.92	21.32	21.96	22.36	23.72	19.55	19.95	20.59	20.99	22.34
8H	4H	20.26	20.70	21.28	21.73	23.08	19.12	19.56	20.14	20.59	21.94
	6H	20.88	21.24	21.92	22.31	23.66	19.65	20.02	20.69	21.08	22.43
	8H	21.16	21.48	22.21	22.53	23.90	19.90	20.22	20.95	21.27	22.64
	12H	21.32	21.60	22.37	22.65	24.06	20.08	20.36	21.13	21.41	22.82
12H	4H	20.23	20.63	21.27	21.67	23.03	19.12	19.52	20.16	20.56	21.92
	6H	20.90	21.22	21.95	22.27	23.64	19.71	20.03	20.76	21.08	22.45
	8H	21.20	21.48	22.25	22.52	23.93	19.99	20.27	21.04	21.32	22.73