

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: P1439065

Luminaire Tested: CB2-D-085U-120D-927-1D-UNV-STD-W-4

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1439065  
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-927-1D-UNV-STD-W-4  
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: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

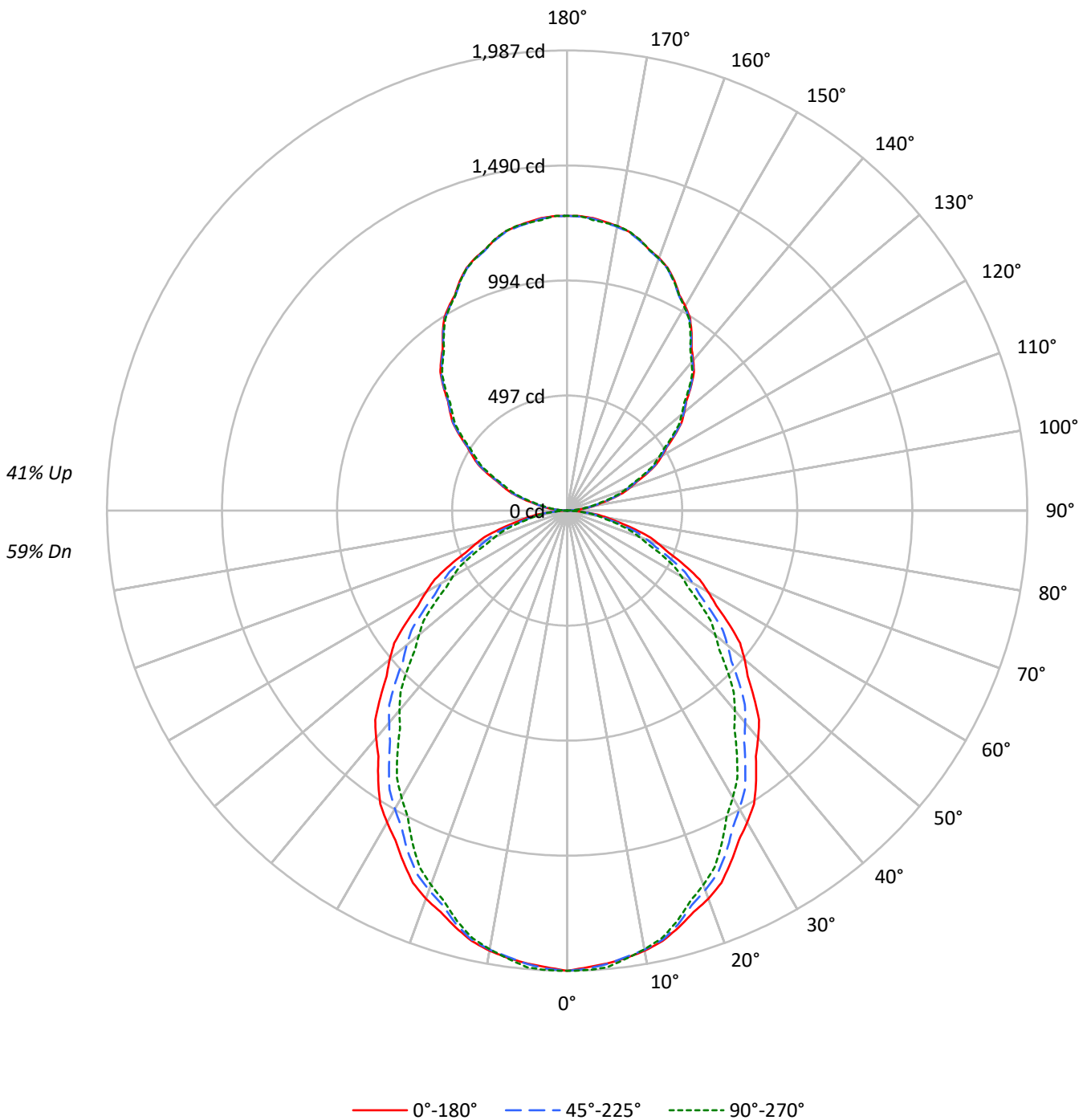
Lumens per Lamp: N/A  
Luminaire Lumens: 7880.4 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 67.8  
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°	34613	34613	34613
5°	34321	34373	34613
10°	34125	34044	34017
15°	33584	33366	33090
20°	33056	32322	31871
25°	32167	31262	30384
30°	31276	29900	28768
35°	30252	28505	27146
40°	29167	27193	25602
45°	28073	25824	24100
50°	27088	24493	22636
55°	25875	23103	21256
60°	24489	21786	19877
65°	23017	20318	18500
70°	21388	18674	16739
75°	19455	16898	15155
80°	17402	14805	13741
85°	13389	12170	10032

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 28073 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.9	2.4
10°-20°	520.9	6.6
20°-30°	749.0	9.5
30°-40°	841.9	10.7
40°-50°	813.3	10.3
50°-60°	687.2	8.7
60°-70°	493.6	6.3
70°-80°	269.8	3.4
80°-90°	71.7	0.9
90°-100°	49.2	0.6
100°-110°	202.8	2.6
110°-120°	368.2	4.7
120°-130°	501.0	6.4
130°-140°	578.3	7.3
140°-150°	582.8	7.4
150°-160°	502.9	6.4
160°-170°	340.8	4.3
170°-180°	120.2	1.5
0°-30°	1456.9	18.5
0°-40°	2298.8	29.2
0°-60°	3799.2	48.2
0°-90°	4634.3	58.8
90°-120°	620.1	7.9
90°-150°	2282.1	29.0
90°-180°	3246.0	41.2
0°-180°	7880.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1987	1987	1987	1987	1987	
5°	1963	1990	1966	1966	1980	186
15°	1862	1879	1850	1832	1835	525
25°	1674	1675	1627	1590	1581	771
35°	1423	1406	1341	1289	1277	889
45°	1140	1116	1048	993	978	881
55°	852	821	761	713	700	762
65°	558	538	493	458	449	554
75°	289	271	251	231	225	309
85°	67	62	61	53	50	80
90°	0	0	1	0	1	4
95°	48	42	40	31	31	55
105°	201	198	193	182	180	213
115°	381	380	373	362	361	376
125°	567	573	561	549	550	506
135°	756	764	752	738	743	582
145°	936	947	932	922	928	585
155°	1095	1106	1090	1083	1092	504
165°	1210	1223	1207	1201	1211	341
175°	1268	1282	1265	1257	1260	120
180°	1273	1273	1273	1273	1273	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1987.3	1987.3	1987.3	1987.3	1987.3
2.5°	1973.9	1997.7	1980.0	1982.5	1986.1
5°	1963.0	1989.7	1966.0	1966.3	1979.7
7.5°	1949.0	1974.3	1944.4	1938.9	1951.4
10°	1929.5	1954.8	1924.9	1914.5	1923.4
12.5°	1903.9	1928.0	1899.4	1882.8	1890.5
15°	1862.5	1878.9	1850.4	1832.2	1835.1
17.5°	1817.5	1827.6	1786.4	1771.2	1768.2
20°	1783.4	1792.3	1743.8	1722.5	1719.5
22.5°	1739.6	1747.3	1696.4	1670.1	1665.9
25°	1673.8	1675.3	1626.7	1589.9	1581.0
27.5°	1605.1	1600.3	1546.3	1502.8	1491.2
30°	1555.1	1549.2	1486.7	1440.8	1430.4
32.5°	1501.6	1490.9	1428.2	1378.7	1368.3
35°	1422.8	1406.4	1340.6	1288.6	1276.7
37.5°	1338.8	1320.3	1255.7	1199.1	1185.7
40°	1282.8	1261.9	1196.0	1139.4	1126.0
42.5°	1226.8	1203.6	1136.4	1079.8	1065.2
45°	1139.7	1115.9	1048.4	993.3	978.4
47.5°	1057.0	1026.6	961.1	906.3	891.4
50°	999.7	967.0	903.9	850.3	835.4
52.5°	941.3	907.4	846.7	795.5	780.6
55°	852.1	820.9	760.8	713.4	700.0
57.5°	763.9	733.8	679.0	633.6	620.5
60°	703.0	677.7	625.4	582.5	570.6
62.5°	644.6	621.7	571.8	532.6	520.7
65°	558.5	537.6	493.0	457.8	448.9
67.5°	474.8	453.9	417.9	386.3	376.2
70°	420.0	399.2	366.7	337.6	328.7
72.5°	367.6	345.6	319.2	292.6	286.1
75°	289.1	271.3	251.1	231.2	225.2
77.5°	219.7	202.5	187.8	173.7	172.3
80°	173.5	158.6	147.6	138.4	137.0
82.5°	129.6	118.3	111.1	104.4	104.1
85°	67.0	62.5	60.9	53.2	50.2
87.5°	19.5	19.5	17.2	14.6	14.8
90°	0.0	0.0	1.0	0.0	1.0
92.5°	11.9	10.4	9.7	6.4	7.3
95°	47.7	41.8	39.7	30.8	30.8
97.5°	90.0	84.1	81.0	71.8	69.9
100°	120.1	114.3	111.2	101.2	99.3
102.5°	151.1	148.4	143.0	132.2	130.3
105°	200.6	197.6	192.6	181.6	179.7
107.5°	251.4	252.0	244.4	235.4	232.7
110°	287.9	287.0	281.0	272.0	270.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	325.3	323.5	317.5	308.5	306.6
115°	381.3	380.3	373.3	362.4	361.4
117.5°	434.5	437.6	429.3	417.8	417.4
120°	472.6	476.5	466.6	456.7	454.7
122.5°	509.9	514.6	504.8	493.3	493.6
125°	566.9	572.7	561.0	549.1	550.0
127.5°	621.9	629.1	618.2	606.1	607.2
130°	659.3	668.0	656.3	643.4	645.4
132.5°	697.4	706.1	694.4	680.8	684.3
135°	755.6	764.3	751.6	737.8	742.7
137.5°	810.4	819.1	805.2	793.6	799.4
140°	846.9	855.6	840.9	830.2	836.0
142.5°	882.6	892.9	877.5	865.9	873.3
145°	936.3	946.9	932.3	921.5	928.3
147.5°	987.1	997.8	982.9	972.6	979.5
150°	1019.7	1030.3	1014.7	1005.9	1013.7
152.5°	1049.8	1062.1	1045.7	1037.0	1047.1
155°	1095.1	1105.8	1090.2	1083.4	1092.1
157.5°	1134.4	1146.9	1131.3	1125.5	1132.4
160°	1160.6	1172.3	1156.7	1150.9	1158.7
162.5°	1180.5	1192.9	1178.1	1171.6	1180.9
165°	1210.3	1222.9	1207.3	1200.6	1211.3
167.5°	1233.7	1247.1	1231.3	1224.4	1235.3
170°	1248.0	1260.6	1244.0	1236.4	1248.0
172.5°	1257.5	1270.9	1253.6	1245.8	1253.6
175°	1267.9	1281.5	1264.9	1257.0	1259.9
177.5°	1272.8	1283.7	1270.5	1263.5	1272.8
180°	1272.8	1272.8	1272.8	1272.8	1272.8



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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	20.09	21.02	20.97	21.92	23.06	18.99	19.93	19.87	20.82	21.97
	3H	21.74	22.58	22.64	23.49	24.65	20.53	21.36	21.42	22.27	23.44
	4H	22.37	23.16	23.28	24.08	25.26	21.10	21.89	22.01	22.81	23.98
	6H	22.78	23.51	23.70	24.43	25.62	21.48	22.21	22.40	23.13	24.32
	8H	22.93	23.62	23.86	24.56	25.75	21.62	22.31	22.55	23.25	24.44
	12H	23.01	23.67	23.94	24.60	25.81	21.69	22.35	22.62	23.28	24.49
4H	2H	20.51	21.30	21.42	22.21	23.39	19.64	20.43	20.55	21.34	22.52
	3H	22.39	23.04	23.31	23.99	25.18	21.38	22.04	22.30	22.98	24.17
	4H	23.14	23.74	24.07	24.68	25.89	22.05	22.65	22.99	23.59	24.81
	6H	23.66	24.18	24.61	25.14	26.36	22.53	23.05	23.48	24.02	25.23
	8H	23.87	24.35	24.82	25.31	26.54	22.72	23.21	23.67	24.17	25.40
	12H	23.97	24.41	24.94	25.39	26.62	22.82	23.25	23.79	24.23	25.46
8H	4H	23.30	23.78	24.25	24.74	25.97	22.33	22.82	23.28	23.77	25.00
	6H	23.94	24.34	24.92	25.34	26.57	22.94	23.34	23.92	24.34	25.57
	8H	24.23	24.59	25.22	25.58	26.82	23.22	23.57	24.20	24.56	25.81
	12H	24.41	24.72	25.40	25.70	27.00	23.37	23.68	24.36	24.66	25.96
12H	4H	23.28	23.72	24.25	24.69	25.93	22.34	22.78	23.31	23.75	24.99
	6H	23.97	24.32	24.96	25.31	26.56	23.00	23.36	23.99	24.35	25.59
	8H	24.29	24.60	25.28	25.58	26.88	23.31	23.62	24.30	24.61	25.90