

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P824243

Luminaire Tested: CB2-D-125U-030D-840-1D-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824243  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-242-13, G2-2312-242-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB2-D-125U-030D-840-1D-UNV-STD-W-4  
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER  
2-INCH APERTURE  
DOWNLIGHT 300 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 80 CRI, 4000K CCT LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6121.0 lumens  
Efficiency: N/A  
Efficacy: 125.9 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: Semi-Indirect

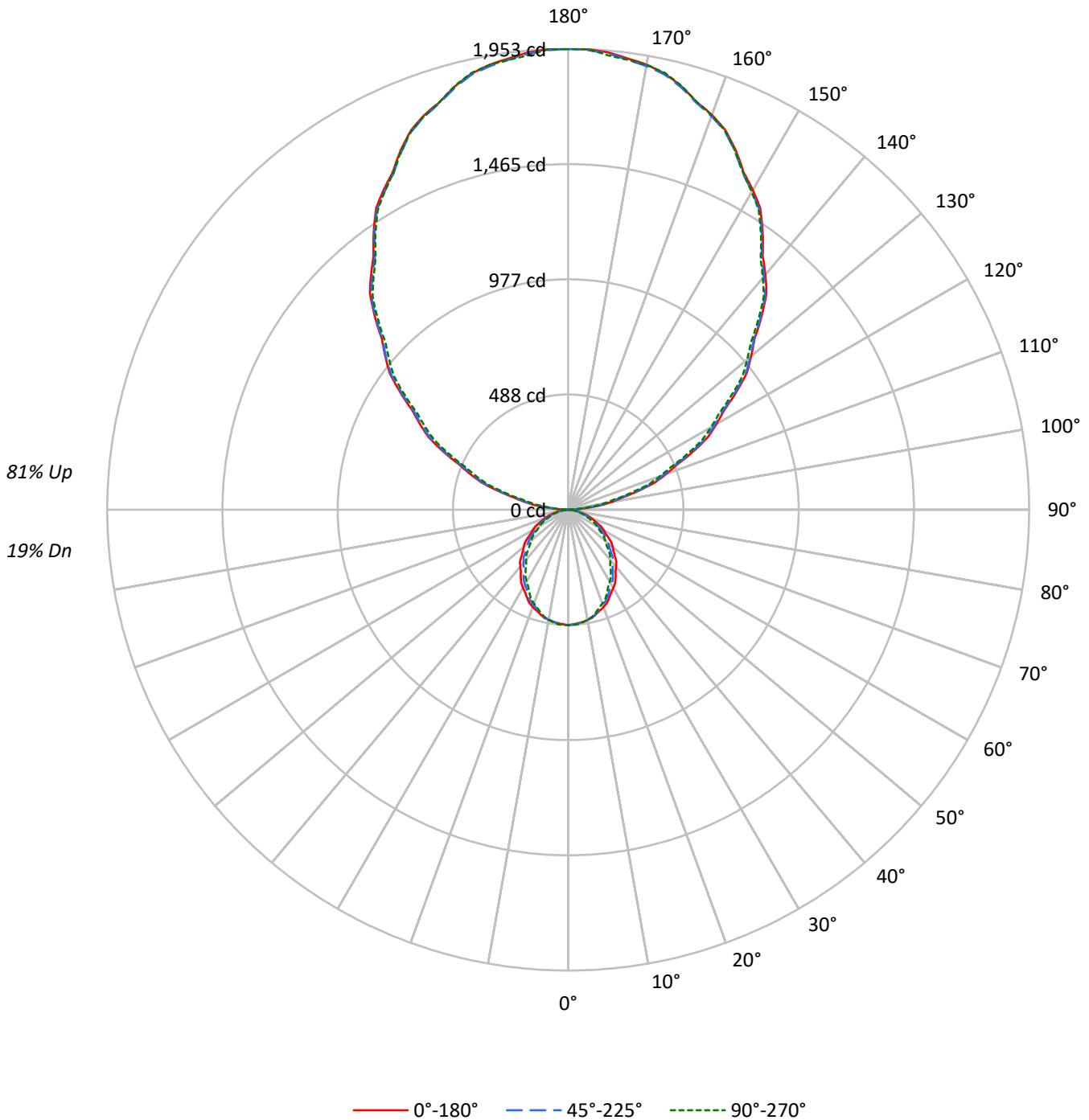
Input Watts (W): 48.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	100	100	100	100	88	88	88	88	66	66	66	46	46	46	27	27	27	19				
1	91	87	83	80	80	77	74	71	58	56	54	40	39	38	24	24	23	16				
2	83	76	70	65	73	67	62	58	51	47	45	35	33	32	21	20	20	13				
3	75	67	60	54	66	59	53	49	45	41	38	31	29	27	19	18	17	11				
4	69	59	51	46	60	52	46	41	40	35	32	28	25	23	17	16	14	10				
5	63	52	45	39	55	46	40	35	35	31	27	25	22	20	15	14	13	9				
6	58	47	39	34	51	41	35	30	32	27	24	22	20	17	14	12	11	8				
7	53	42	34	29	47	37	31	26	29	24	21	20	17	15	13	11	10	7				
8	49	38	31	26	44	34	27	23	26	21	18	19	16	13	12	10	9	6				
9	46	34	27	23	40	31	25	20	24	19	16	17	14	12	11	9	8	5				
10	43	31	25	20	38	28	22	18	22	17	14	16	13	11	10	8	7	5				

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

	0°	45°	90°
0°	8521	8521	8521
5°	8448	8460	8520
10°	8399	8380	8373
15°	8268	8213	8145
20°	8137	7957	7846
25°	7918	7695	7480
30°	7699	7359	7081
35°	7446	7017	6683
40°	7180	6694	6303
45°	6909	6357	5931
50°	6668	6029	5571
55°	6371	5688	5232
60°	6026	5361	4894
65°	5667	5003	4554
70°	5266	4599	4120
75°	4791	4159	3728
80°	4283	3641	3380
85°	3297	2998	2478

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6909 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.0	0.8
10°-20°	128.2	2.1
20°-30°	184.4	3.0
30°-40°	207.2	3.4
40°-50°	200.2	3.3
50°-60°	169.1	2.8
60°-70°	121.5	2.0
70°-80°	66.4	1.1
80°-90°	17.7	0.3
90°-100°	75.4	1.2
100°-110°	311.1	5.1
110°-120°	564.8	9.2
120°-130°	768.5	12.6
130°-140°	887.2	14.5
140°-150°	894.1	14.6
150°-160°	771.6	12.6
160°-170°	522.9	8.5
170°-180°	184.5	3.0
0°-30°	358.6	5.9
0°-40°	565.9	9.2
0°-60°	935.2	15.3
0°-90°	1140.8	18.6
90°-120°	951.3	15.5
90°-150°	3501.2	57.2
90°-180°	4980.0	81.4
0°-180°	6121.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	489	489	489	489	489	
5°	483	490	484	484	487	46
15°	458	462	456	451	452	129
25°	412	412	400	391	389	190
35°	350	346	330	317	314	219
45°	280	275	258	244	241	217
55°	210	202	187	176	172	188
65°	138	132	121	113	110	136
75°	71	67	62	57	55	76
85°	16	15	15	13	12	20
90°	0	0	2	0	2	3
95°	73	64	61	47	47	85
105°	308	303	296	279	276	326
115°	585	583	573	556	554	577
125°	870	879	861	842	844	777
135°	1159	1173	1153	1132	1139	893
145°	1436	1453	1430	1414	1424	897
155°	1680	1696	1672	1662	1676	773
165°	1857	1876	1852	1842	1858	523
175°	1945	1966	1941	1928	1933	185
180°	1953	1953	1953	1953	1953	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	489.2	489.2	489.2	489.2	489.2
2.5°	485.9	491.7	487.4	488.0	488.9
5°	483.2	489.8	483.9	484.0	487.3
7.5°	479.7	486.0	478.6	477.3	480.3
10°	474.9	481.2	473.8	471.3	473.4
12.5°	468.7	474.6	467.5	463.5	465.4
15°	458.5	462.5	455.5	451.0	451.7
17.5°	447.4	449.9	439.7	436.0	435.2
20°	439.0	441.2	429.3	424.0	423.3
22.5°	428.2	430.1	417.6	411.1	410.1
25°	412.0	412.4	400.4	391.4	389.2
27.5°	395.1	393.9	380.6	369.9	367.1
30°	382.8	381.3	365.9	354.7	352.1
32.5°	369.6	367.0	351.6	339.4	336.8
35°	350.2	346.2	330.0	317.2	314.3
37.5°	329.5	325.0	309.1	295.2	291.9
40°	315.8	310.6	294.4	280.5	277.2
42.5°	302.0	296.3	279.7	265.8	262.2
45°	280.5	274.7	258.1	244.5	240.8
47.5°	260.2	252.7	236.6	223.1	219.4
50°	246.1	238.0	222.5	209.3	205.6
52.5°	231.7	223.4	208.4	195.8	192.2
55°	209.8	202.1	187.3	175.6	172.3
57.5°	188.0	180.6	167.1	156.0	152.7
60°	173.0	166.8	153.9	143.4	140.5
62.5°	158.7	153.0	140.8	131.1	128.2
65°	137.5	132.3	121.4	112.7	110.5
67.5°	116.9	111.7	102.9	95.1	92.6
70°	103.4	98.3	90.3	83.1	80.9
72.5°	90.5	85.1	78.6	72.0	70.4
75°	71.2	66.8	61.8	56.9	55.4
77.5°	54.1	49.8	46.2	42.8	42.4
80°	42.7	39.0	36.3	34.1	33.7
82.5°	31.9	29.1	27.3	25.7	25.6
85°	16.5	15.4	15.0	13.1	12.4
87.5°	4.8	4.8	4.5	3.6	3.9
90°	0.0	0.0	1.5	0.0	1.5
92.5°	18.3	15.9	14.9	9.8	11.3
95°	73.1	64.2	60.9	47.2	47.2
97.5°	138.0	129.1	124.3	110.2	107.2
100°	184.3	175.4	170.6	155.3	152.3
102.5°	231.8	227.7	219.3	202.8	199.8
105°	307.7	303.2	295.5	278.7	275.7
107.5°	385.7	386.6	375.0	361.2	357.0
110°	441.7	440.2	431.1	417.3	414.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	499.0	496.3	487.1	473.3	470.4
115°	584.9	583.4	572.7	555.9	554.4
117.5°	666.6	671.3	658.6	641.0	640.4
120°	725.0	731.0	715.9	700.6	697.6
122.5°	782.3	789.5	774.4	756.7	757.3
125°	869.7	878.7	860.6	842.4	843.9
127.5°	954.1	965.2	948.3	929.8	931.6
130°	1011.4	1024.8	1006.8	987.1	990.1
132.5°	1069.9	1083.3	1065.3	1044.4	1049.8
135°	1159.2	1172.6	1153.1	1131.9	1139.4
137.5°	1243.2	1256.6	1235.3	1217.5	1226.5
140°	1299.3	1312.7	1290.2	1273.6	1282.5
142.5°	1354.1	1369.9	1346.2	1328.5	1339.8
145°	1436.4	1452.8	1430.3	1413.8	1424.2
147.5°	1514.4	1530.8	1508.0	1492.1	1502.8
150°	1564.3	1580.7	1556.7	1543.3	1555.2
152.5°	1610.6	1629.4	1604.2	1590.9	1606.4
155°	1680.1	1696.5	1672.5	1662.1	1675.5
157.5°	1740.4	1759.5	1735.5	1726.6	1737.4
160°	1780.6	1798.5	1774.5	1765.7	1777.6
162.5°	1811.1	1830.2	1807.4	1797.4	1811.7
165°	1856.8	1876.1	1852.2	1841.9	1858.3
167.5°	1892.7	1913.3	1889.1	1878.5	1895.2
170°	1914.7	1934.0	1908.6	1896.8	1914.7
172.5°	1929.3	1949.8	1923.2	1911.3	1923.2
175°	1945.1	1966.0	1940.6	1928.5	1932.9
177.5°	1952.7	1969.4	1949.1	1938.5	1952.7
180°	1952.7	1952.7	1952.7	1952.7	1952.7



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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	10.34	10.98	11.53	12.14	13.80	9.25	9.88	10.43	11.05	12.70
	3H	11.97	12.54	13.17	13.71	15.39	10.76	11.32	11.95	12.50	14.17
	4H	12.59	13.13	13.79	14.30	15.98	11.32	11.86	12.52	13.03	14.71
	6H	12.98	13.47	14.19	14.65	16.34	11.68	12.17	12.89	13.35	15.04
	8H	13.12	13.59	14.33	14.78	16.46	11.81	12.28	13.02	13.47	15.15
	12H	13.19	13.63	14.40	14.82	16.52	11.87	12.31	13.08	13.50	15.20
4H	2H	10.72	11.26	11.94	12.44	14.11	9.85	10.39	11.06	11.57	13.24
	3H	12.57	13.02	13.79	14.22	15.91	11.57	12.01	12.78	13.21	14.90
	4H	13.31	13.72	14.52	14.91	16.62	12.23	12.64	13.44	13.83	15.54
	6H	13.82	14.17	15.03	15.38	17.07	12.69	13.04	13.91	14.26	15.95
	8H	14.02	14.35	15.23	15.55	17.26	12.88	13.21	14.09	14.41	16.12
	12H	14.11	14.41	15.34	15.62	17.34	12.95	13.25	14.18	14.46	16.18
8H	4H	13.45	13.78	14.66	14.98	16.69	12.48	12.81	13.70	14.02	15.73
	6H	14.08	14.35	15.31	15.60	17.30	13.08	13.35	14.31	14.60	16.30
	8H	14.37	14.60	15.61	15.82	17.55	13.35	13.59	14.59	14.81	16.54
	12H	14.53	14.74	15.77	15.96	17.71	13.49	13.70	14.73	14.92	16.67
12H	4H	13.42	13.72	14.65	14.93	16.64	12.48	12.78	13.71	13.99	15.70
	6H	14.11	14.34	15.35	15.56	17.29	13.14	13.38	14.38	14.60	16.32
	8H	14.41	14.62	15.66	15.84	17.60	13.44	13.64	14.68	14.86	16.62