

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: P824347

Luminaire Tested: CB3-D-125U-120D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824347  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-242-3, G2-2312-242-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB3-D-125U-120D-835-1D-UNV-STD-W-4  
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER  
3-INCH APERTURE  
DOWNLIGHT 1200 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 80 CRI, 3500K CCT LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9846.2 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26  
Luminous Opening: Rectangular (W 0.24' x L: 4' x H: 0')  
CIE Type: General Diffuse

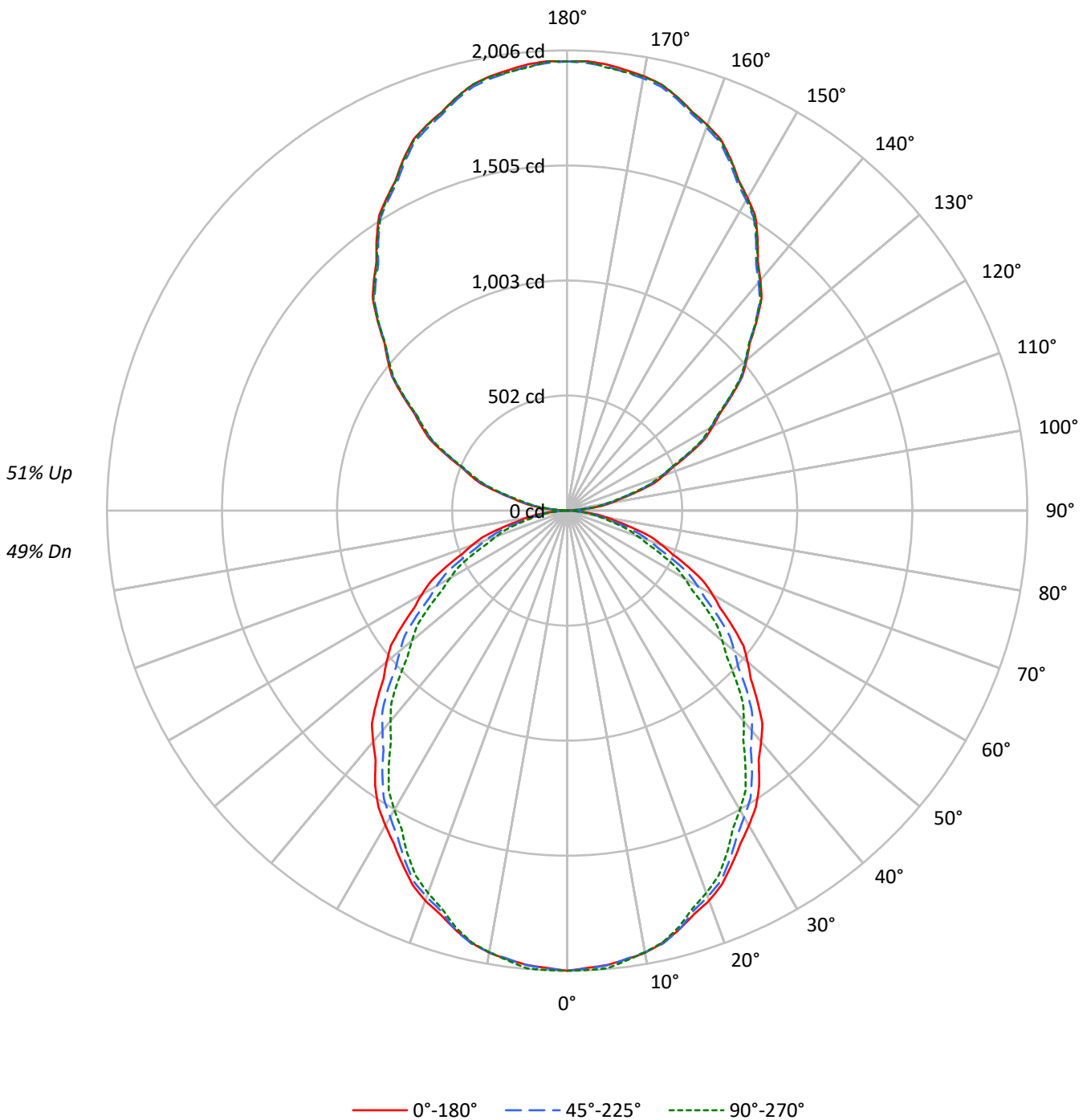
Input Watts (W): 75.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20										
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	98	98	98	98	83	83	83	68	68	68	55	55	55	49																				
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41																				
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	40	35																				
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	38	36	34	30																				
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26																				
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26	22																				
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23	20																				
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18																				
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16																				
9	50	38	31	26	46	36	29	25	31	26	22	26	22	19	22	19	16	14																				
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13																				

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

	0°	45°	90°
0°	22696	22696	22696
5°	22588	22604	22751
10°	22490	22457	22457
15°	22146	22146	22012
20°	21786	21564	21357
25°	21219	20954	20580
30°	20700	20161	19677
35°	20154	19407	18719
40°	19429	18503	17703
45°	18769	17699	16606
50°	18092	16738	15536
55°	17355	15811	14519
60°	16558	14852	13369
65°	15627	13758	12157
70°	14553	12478	10831
75°	13194	10951	9648
80°	11500	9181	8536
85°	8867	7763	7763

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18769 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.3	1.9
10°-20°	531.7	5.4
20°-30°	772.1	7.8
30°-40°	877.6	8.9
40°-50°	852.0	8.7
50°-60°	719.3	7.3
60°-70°	511.8	5.2
70°-80°	273.4	2.8
80°-90°	72.2	0.7
90°-100°	82.7	0.8
100°-110°	323.7	3.3
110°-120°	577.0	5.9
120°-130°	780.8	7.9
130°-140°	897.7	9.1
140°-150°	900.8	9.1
150°-160°	774.7	7.9
160°-170°	524.4	5.3
170°-180°	184.9	1.9
0°-30°	1493.1	15.2
0°-40°	2370.7	24.1
0°-60°	3942.0	40.0
0°-90°	4799.5	48.7
90°-120°	983.5	10.0
90°-150°	3562.8	36.2
90°-180°	5047.0	51.3
0°-180°	9846.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2006	2006	2006	2006	2006	
5°	1989	2014	1990	1988	2003	189
15°	1891	1907	1891	1879	1879	533
25°	1700	1705	1678	1655	1648	783
35°	1459	1445	1405	1364	1355	909
45°	1173	1155	1106	1053	1038	905
55°	880	856	802	750	736	787
65°	584	563	514	468	454	578
75°	302	285	250	225	221	322
85°	68	63	60	60	60	81
90°	0	0	0	0	0	6
95°	80	72	65	60	62	91
105°	314	312	302	297	294	335
115°	589	592	578	576	575	583
125°	877	887	869	866	868	784
135°	1168	1180	1161	1152	1164	901
145°	1447	1459	1435	1428	1441	904
155°	1689	1704	1676	1668	1686	777
165°	1865	1881	1856	1846	1865	525
175°	1953	1971	1944	1933	1940	185
180°	1958	1958	1958	1958	1958	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2005.9	2005.9	2005.9	2005.9	2005.9
2.5°	1995.6	2015.7	1997.9	2000.3	2004.7
5°	1988.8	2013.8	1990.2	1987.7	2003.1
7.5°	1973.4	1996.2	1971.7	1966.0	1978.5
10°	1957.5	1982.5	1954.6	1947.7	1954.6
12.5°	1929.0	1955.2	1933.0	1921.4	1927.3
15°	1890.6	1907.3	1890.6	1879.2	1879.2
17.5°	1843.6	1861.1	1829.6	1821.6	1818.2
20°	1809.4	1824.7	1790.9	1779.4	1773.7
22.5°	1763.9	1778.1	1749.9	1729.2	1723.6
25°	1699.7	1705.3	1678.4	1655.4	1648.5
27.5°	1636.8	1638.2	1601.2	1573.4	1564.2
30°	1584.4	1585.8	1543.1	1513.1	1506.1
32.5°	1532.0	1527.9	1487.3	1451.6	1446.9
35°	1459.1	1445.2	1405.0	1363.6	1355.2
37.5°	1371.2	1362.8	1315.4	1273.8	1261.3
40°	1315.4	1301.4	1252.7	1211.2	1198.6
42.5°	1259.6	1243.4	1193.5	1147.4	1133.7
45°	1173.0	1154.9	1106.1	1053.1	1037.8
47.5°	1085.9	1066.1	1012.4	961.1	944.1
50°	1027.8	1006.9	950.9	900.7	882.6
52.5°	968.6	946.6	890.6	839.3	824.5
55°	879.8	856.1	801.5	749.9	736.0
57.5°	790.9	767.5	713.2	664.4	647.7
60°	731.7	709.4	656.3	607.5	590.8
62.5°	671.3	650.2	598.2	550.6	535.0
65°	583.7	562.8	513.9	468.0	454.1
67.5°	496.8	479.0	430.8	388.7	377.5
70°	439.9	423.2	377.2	338.6	327.4
72.5°	385.2	367.4	323.7	290.8	283.0
75°	301.8	285.1	250.5	224.8	220.7
77.5°	225.5	211.8	181.9	167.4	165.1
80°	176.5	164.0	140.9	131.0	131.0
82.5°	131.0	120.7	105.6	101.4	101.4
85°	68.3	62.8	59.8	59.8	59.8
87.5°	20.5	20.5	19.4	18.2	18.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	21.6	19.3	12.0	9.6	9.6
95°	79.6	72.2	64.6	60.1	61.6
97.5°	146.8	139.8	130.3	125.8	127.0
100°	193.7	187.8	177.2	172.7	172.7
102.5°	239.3	235.8	225.2	220.7	221.9
105°	313.8	312.3	301.8	297.2	294.3
107.5°	396.1	393.4	381.7	381.3	378.7
110°	448.9	447.5	436.9	435.4	433.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	503.0	505.0	493.4	491.8	490.4
115°	588.6	591.5	578.1	576.5	575.1
117.5°	676.3	680.4	666.1	664.5	661.8
120°	732.7	741.5	723.7	722.2	720.7
122.5°	790.4	798.0	781.4	778.7	778.4
125°	876.9	887.1	869.4	866.4	867.8
127.5°	963.3	973.9	957.3	951.4	954.6
130°	1021.0	1032.7	1015.0	1009.1	1013.5
132.5°	1079.9	1091.6	1073.9	1068.0	1074.8
135°	1168.1	1179.9	1160.6	1151.9	1163.6
137.5°	1254.3	1264.6	1243.5	1237.5	1249.8
140°	1310.8	1321.1	1298.8	1291.6	1306.3
142.5°	1366.0	1377.5	1352.8	1345.7	1361.5
145°	1447.4	1459.2	1435.4	1428.2	1441.4
147.5°	1525.5	1537.5	1513.5	1505.1	1518.6
150°	1573.5	1586.8	1561.5	1554.4	1569.0
152.5°	1620.4	1634.8	1608.4	1600.1	1618.3
155°	1689.2	1703.8	1675.6	1668.5	1686.2
157.5°	1751.0	1764.5	1739.0	1731.8	1747.1
160°	1788.3	1802.9	1776.2	1769.1	1786.7
162.5°	1820.7	1835.4	1811.1	1801.6	1819.2
165°	1864.8	1881.0	1855.8	1845.7	1864.8
167.5°	1901.8	1919.1	1892.5	1883.3	1902.4
170°	1923.4	1939.5	1912.9	1901.3	1920.4
172.5°	1937.8	1953.9	1927.3	1915.6	1928.8
175°	1953.4	1971.0	1944.4	1932.6	1939.9
177.5°	1960.3	1974.4	1953.1	1942.7	1959.1
180°	1957.9	1957.9	1957.9	1957.9	1957.9



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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	17.87	18.71	18.85	19.70	20.99	16.80	17.64	17.77	18.62	19.91
	3H	19.54	20.29	20.52	21.28	22.60	18.21	18.96	19.19	19.95	21.27
	4H	20.17	20.88	21.16	21.88	23.20	18.73	19.44	19.72	20.43	21.75
	6H	20.55	21.21	21.56	22.21	23.54	19.04	19.70	20.05	20.70	22.03
	8H	20.69	21.31	21.70	22.33	23.66	19.16	19.79	20.18	20.81	22.13
	12H	20.76	21.35	21.77	22.36	23.71	19.24	19.83	20.26	20.84	22.20
4H	2H	18.28	18.99	19.28	19.99	21.31	17.42	18.13	18.42	19.13	20.45
	3H	20.17	20.76	21.18	21.79	23.12	19.04	19.63	20.05	20.66	21.99
	4H	20.92	21.46	21.93	22.48	23.83	19.65	20.19	20.66	21.20	22.56
	6H	21.42	21.88	22.45	22.92	24.28	20.06	20.52	21.08	21.56	22.92
	8H	21.61	22.04	22.64	23.08	24.45	20.23	20.66	21.26	21.69	23.06
	12H	21.70	22.10	22.75	23.15	24.52	20.33	20.72	21.38	21.77	23.15
8H	4H	21.04	21.48	22.07	22.51	23.88	19.91	20.34	20.93	21.37	22.74
	6H	21.66	22.02	22.72	23.10	24.46	20.43	20.79	21.49	21.87	23.23
	8H	21.94	22.25	23.00	23.31	24.70	20.69	21.00	21.75	22.06	23.45
	12H	22.10	22.38	23.17	23.43	24.86	20.86	21.14	21.93	22.19	23.62
12H	4H	21.02	21.41	22.06	22.46	23.83	19.91	20.30	20.95	21.35	22.72
	6H	21.68	22.00	22.74	23.06	24.44	20.49	20.81	21.55	21.87	23.25
	8H	21.98	22.26	23.04	23.31	24.74	20.77	21.05	21.84	22.10	23.53