

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: P824348

Luminaire Tested: CB3-D-125U-120D-840-1D-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824348  
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-840-1D-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, 4000K CCT LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9715.0 lumens  
Efficiency: N/A  
Efficacy: 128.8 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

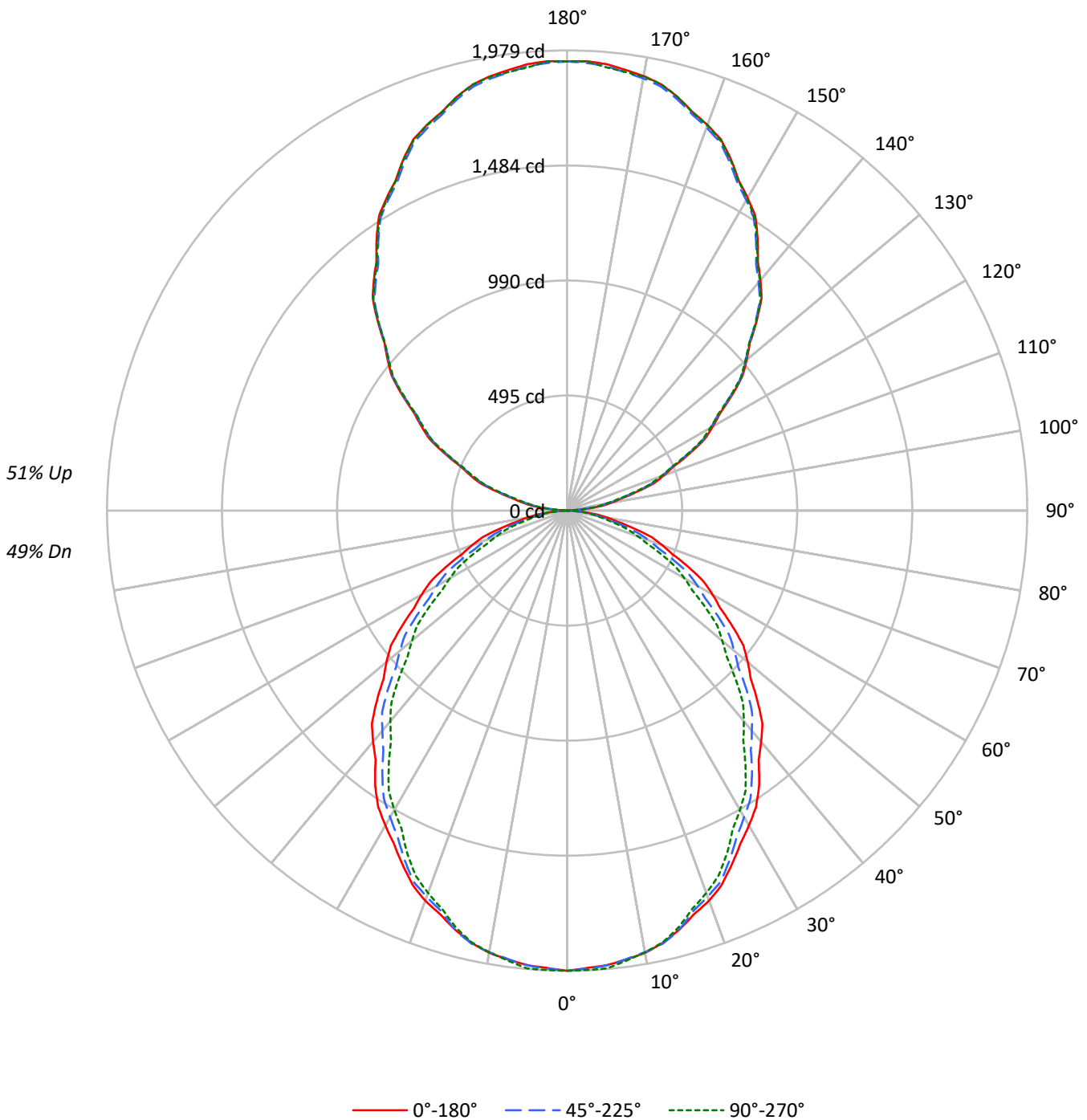
Input Watts (W): 75.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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	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°	22393	22393	22393
5°	22287	22303	22448
10°	22190	22158	22158
15°	21851	21851	21718
20°	21496	21276	21072
25°	20937	20674	20306
30°	20424	19893	19415
35°	19886	19148	18470
40°	19169	18256	17469
45°	18520	17464	16384
50°	17851	16516	15328
55°	17122	15600	14325
60°	16338	14652	13191
65°	15418	13576	11997
70°	14357	12313	10689
75°	13019	10807	9517
80°	11351	9063	8418
85°	8750	7659	7659

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18520 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.7	1.9
10°-20°	524.6	5.4
20°-30°	761.8	7.8
30°-40°	865.9	8.9
40°-50°	840.6	8.7
50°-60°	709.7	7.3
60°-70°	505.0	5.2
70°-80°	269.8	2.8
80°-90°	71.3	0.7
90°-100°	81.6	0.8
100°-110°	319.4	3.3
110°-120°	569.3	5.9
120°-130°	770.4	7.9
130°-140°	885.7	9.1
140°-150°	888.8	9.1
150°-160°	764.3	7.9
160°-170°	517.4	5.3
170°-180°	182.5	1.9
0°-30°	1473.2	15.2
0°-40°	2339.1	24.1
0°-60°	3889.5	40.0
0°-90°	4735.5	48.7
90°-120°	970.4	10.0
90°-150°	3515.3	36.2
90°-180°	4980.0	51.3
0°-180°	9715.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1979	1979	1979	1979	1979	
5°	1962	1987	1964	1961	1976	186
15°	1865	1882	1865	1854	1854	525
25°	1677	1683	1656	1633	1626	773
35°	1440	1426	1386	1345	1337	897
45°	1157	1140	1091	1039	1024	893
55°	868	845	791	740	726	776
65°	576	555	507	462	448	570
75°	298	281	247	222	218	317
85°	67	62	59	59	59	80
90°	0	0	0	0	0	6
95°	78	71	64	59	61	90
105°	310	308	298	293	290	330
115°	581	584	570	569	567	576
125°	865	875	858	855	856	774
135°	1153	1164	1145	1136	1148	889
145°	1428	1440	1416	1409	1422	892
155°	1667	1681	1653	1646	1664	767
165°	1840	1856	1831	1821	1840	518
175°	1927	1945	1918	1907	1914	183
180°	1932	1932	1932	1932	1932	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1979.1	1979.1	1979.1	1979.1	1979.1
2.5°	1969.0	1988.8	1971.3	1973.6	1978.0
5°	1962.3	1987.0	1963.7	1961.2	1976.4
7.5°	1947.1	1969.6	1945.4	1939.8	1952.2
10°	1931.4	1956.1	1928.6	1921.7	1928.6
12.5°	1903.3	1929.1	1907.2	1895.8	1901.6
15°	1865.4	1881.8	1865.4	1854.1	1854.1
17.5°	1819.0	1836.3	1805.2	1797.3	1794.0
20°	1785.3	1800.4	1767.0	1755.7	1750.1
22.5°	1740.3	1754.4	1726.6	1706.2	1700.7
25°	1677.1	1682.6	1656.0	1633.4	1626.5
27.5°	1615.0	1616.4	1579.9	1552.4	1543.3
30°	1563.3	1564.7	1522.6	1492.9	1486.0
32.5°	1511.6	1507.5	1467.5	1432.3	1427.6
35°	1439.7	1426.0	1386.3	1345.4	1337.2
37.5°	1352.9	1344.6	1297.8	1256.8	1244.5
40°	1297.8	1284.1	1236.0	1195.0	1182.7
42.5°	1242.8	1226.8	1177.6	1132.1	1118.6
45°	1157.4	1139.5	1091.4	1039.0	1023.9
47.5°	1071.4	1051.9	998.9	948.3	931.5
50°	1014.1	993.5	938.3	888.7	870.8
52.5°	955.7	934.0	878.7	828.1	813.5
55°	868.0	844.7	790.8	739.9	726.2
57.5°	780.4	757.3	703.7	655.6	639.1
60°	722.0	700.0	647.5	599.4	582.9
62.5°	662.4	641.5	590.2	543.2	527.8
65°	575.9	555.3	507.1	461.8	448.1
67.5°	490.2	472.6	425.0	383.5	372.5
70°	434.0	417.5	372.2	334.0	323.1
72.5°	380.1	362.5	319.4	286.9	279.2
75°	297.8	281.3	247.2	221.8	217.7
77.5°	222.5	209.0	179.5	165.1	162.9
80°	174.2	161.8	139.1	129.2	129.2
82.5°	129.2	119.1	104.2	100.0	100.0
85°	67.4	61.9	59.0	59.0	59.0
87.5°	20.2	20.2	19.1	18.0	18.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	21.3	19.0	11.9	9.5	9.5
95°	78.5	71.3	63.7	59.3	60.7
97.5°	144.9	137.9	128.6	124.2	125.3
100°	191.1	185.3	174.8	170.4	170.4
102.5°	236.1	232.7	222.2	217.8	219.0
105°	309.6	308.2	297.8	293.3	290.4
107.5°	390.8	388.2	376.6	376.2	373.6
110°	443.0	441.5	431.1	429.6	428.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	496.3	498.3	486.8	485.3	483.8
115°	580.7	583.6	570.4	568.8	567.4
117.5°	667.2	671.3	657.2	655.6	653.0
120°	722.9	731.6	714.1	712.5	711.1
122.5°	779.8	787.4	770.9	768.3	768.0
125°	865.2	875.3	857.8	854.8	856.3
127.5°	950.5	960.9	944.6	938.7	941.9
130°	1007.4	1019.0	1001.5	995.6	1000.0
132.5°	1065.5	1077.1	1059.5	1053.8	1060.4
135°	1152.6	1164.2	1145.2	1136.5	1148.1
137.5°	1237.6	1247.7	1226.9	1221.0	1233.2
140°	1293.3	1303.4	1281.5	1274.4	1288.9
142.5°	1347.8	1359.1	1334.8	1327.7	1343.4
145°	1428.1	1439.7	1416.3	1409.2	1422.2
147.5°	1505.2	1517.0	1493.3	1485.0	1498.3
150°	1552.6	1565.6	1540.7	1533.6	1548.1
152.5°	1598.8	1613.0	1586.9	1578.7	1596.7
155°	1666.6	1681.1	1653.3	1646.3	1663.7
157.5°	1727.7	1741.0	1715.8	1708.8	1723.8
160°	1764.4	1778.9	1752.6	1745.5	1762.9
162.5°	1796.4	1810.9	1786.9	1777.5	1794.9
165°	1840.0	1855.9	1831.1	1821.1	1840.0
167.5°	1876.4	1893.5	1867.2	1858.2	1877.0
170°	1897.7	1913.7	1887.4	1875.9	1894.8
172.5°	1912.0	1927.9	1901.6	1890.0	1903.1
175°	1927.4	1944.8	1918.5	1906.8	1914.0
177.5°	1934.2	1948.1	1927.1	1916.8	1933.0
180°	1931.8	1931.8	1931.8	1931.8	1931.8



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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	17.83	18.67	18.80	19.65	20.94	16.75	17.59	17.72	18.57	19.86
	3H	19.49	20.25	20.48	21.24	22.55	18.16	18.91	19.14	19.91	21.22
	4H	20.12	20.84	21.12	21.83	23.15	18.68	19.39	19.67	20.39	21.71
	6H	20.51	21.16	21.51	22.16	23.50	19.00	19.65	20.00	20.65	21.98
	8H	20.64	21.27	21.66	22.28	23.61	19.12	19.74	20.13	20.76	22.09
	12H	20.71	21.30	21.73	22.31	23.67	19.19	19.79	20.21	20.80	22.15
4H	2H	18.23	18.95	19.24	19.94	21.26	17.38	18.09	18.38	19.08	20.40
	3H	20.12	20.72	21.13	21.74	23.07	18.99	19.59	20.00	20.61	21.94
	4H	20.87	21.41	21.89	22.43	23.79	19.60	20.14	20.62	21.16	22.51
	6H	21.37	21.84	22.40	22.88	24.23	20.01	20.48	21.04	21.52	22.87
	8H	21.56	22.00	22.59	23.03	24.40	20.18	20.61	21.21	21.65	23.02
	12H	21.66	22.05	22.71	23.10	24.47	20.28	20.68	21.33	21.72	23.10
8H	4H	21.00	21.43	22.03	22.47	23.83	19.86	20.29	20.89	21.33	22.70
	6H	21.62	21.98	22.67	23.05	24.42	20.39	20.75	21.44	21.82	23.19
	8H	21.89	22.21	22.95	23.27	24.65	20.64	20.95	21.70	22.01	23.40
	12H	22.05	22.33	23.12	23.39	24.82	20.81	21.09	21.88	22.15	23.57
12H	4H	20.97	21.36	22.02	22.41	23.78	19.86	20.25	20.91	21.30	22.67
	6H	21.63	21.95	22.69	23.01	24.39	20.44	20.76	21.50	21.82	23.20
	8H	21.93	22.21	23.00	23.26	24.69	20.72	21.00	21.79	22.06	23.48