

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: P824282

Luminaire Tested: CB3-D-030U-120D-840-1D-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824282  
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-030U-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 300 LUMENS PER FOOT  
Light Source: 80 CRI, 4000K CCT LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5873.4 lumens  
Efficiency: N/A  
Efficacy: 126.9 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: Semi-Direct

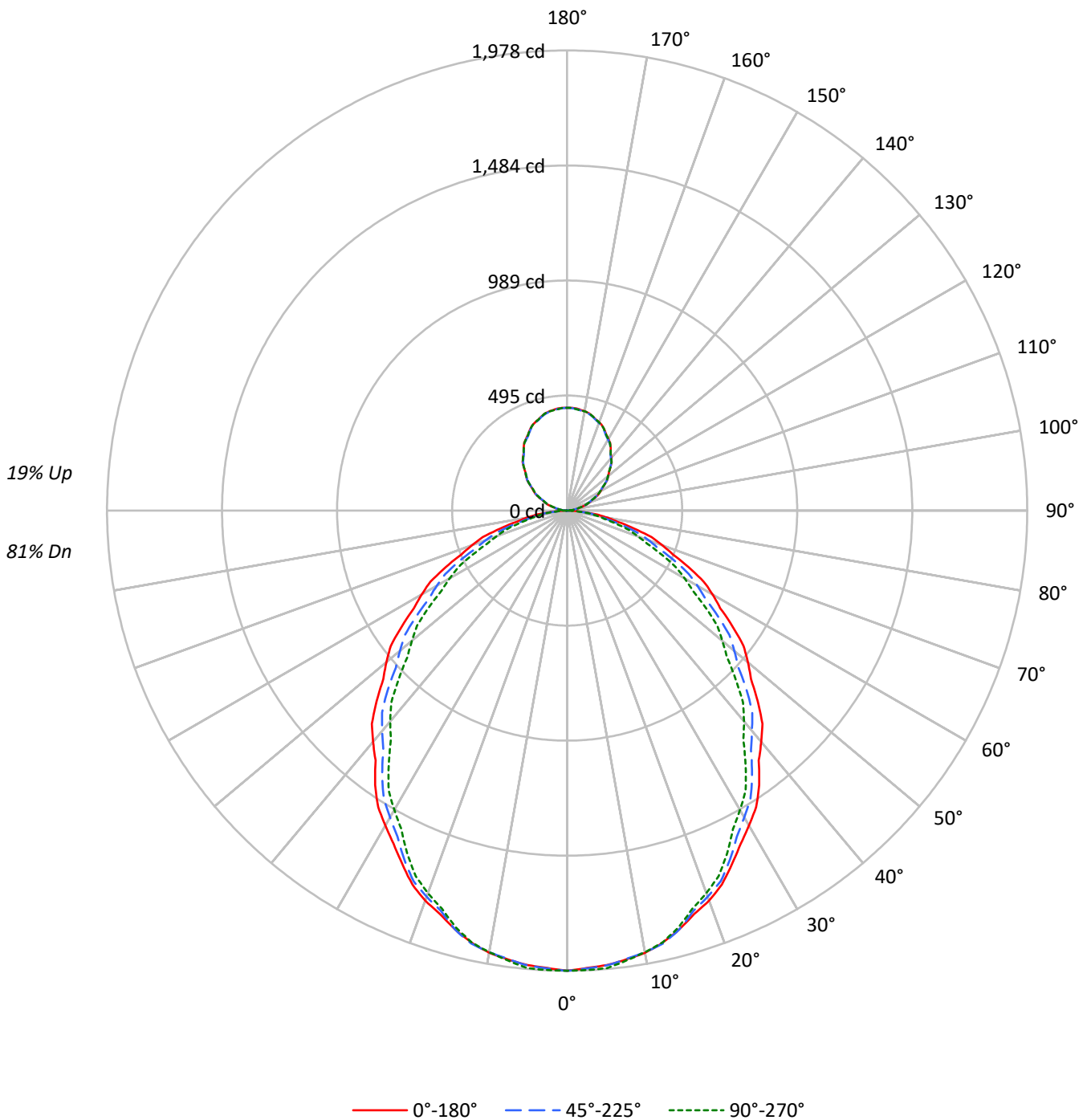
Input Watts (W): 46.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	114	114	114	114	110	110	110	110	100	100	100	92	92	92	84	84	84	81				
1	105	101	97	93	100	96	93	90	89	86	83	82	79	77	75	73	72	69				
2	96	88	82	77	91	85	79	74	78	73	70	72	68	65	66	63	61	58				
3	88	78	70	64	84	75	68	62	69	64	59	64	59	55	59	55	52	49				
4	80	69	61	55	77	67	59	53	62	55	51	57	52	48	53	49	45	43				
5	74	62	54	47	71	60	52	46	56	49	44	52	46	42	48	43	40	37				
6	68	56	47	41	65	54	46	41	50	44	39	47	41	37	44	39	35	33				
7	64	51	42	37	61	49	41	36	46	39	34	43	37	33	40	35	31	29				
8	59	46	38	33	57	45	37	32	42	35	31	39	34	29	37	32	28	26				
9	55	43	35	29	53	41	34	29	39	32	28	36	31	27	34	29	26	24				
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	32	27	23	22				

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

	0°	45°	90°
0°	22380	22380	22380
5°	22274	22290	22421
10°	22176	22144	22144
15°	21837	21837	21706
20°	21482	21263	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°	186.6	3.2
10°-20°	524.3	8.9
20°-30°	761.7	13.0
30°-40°	865.9	14.7
40°-50°	840.6	14.3
50°-60°	709.7	12.1
60°-70°	505.0	8.6
70°-80°	269.8	4.6
80°-90°	71.3	1.2
90°-100°	18.7	0.3
100°-110°	73.0	1.2
110°-120°	130.2	2.2
120°-130°	176.1	3.0
130°-140°	202.5	3.4
140°-150°	203.2	3.5
150°-160°	174.8	3.0
160°-170°	118.3	2.0
170°-180°	41.7	0.7
0°-30°	1472.6	25.1
0°-40°	2338.6	39.8
0°-60°	3888.9	66.2
0°-90°	4734.9	80.6
90°-120°	221.9	3.8
90°-150°	803.7	13.7
90°-180°	1139.0	19.4
0°-180°	5873.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1978	1978	1978	1978	1978	
5°	1961	1986	1962	1960	1974	186
15°	1864	1881	1864	1853	1853	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	3
95°	18	16	15	14	14	20
105°	71	70	68	67	66	76
115°	133	133	130	130	130	132
125°	198	200	196	195	196	177
135°	264	266	262	260	262	203
145°	326	329	324	322	325	204
155°	381	384	378	376	380	175
165°	421	424	419	416	421	119
175°	441	445	439	436	438	42
180°	442	442	442	442	442	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1978.0	1978.0	1978.0	1978.0	1978.0
2.5°	1967.9	1987.6	1970.1	1972.5	1976.9
5°	1961.1	1985.8	1962.5	1960.0	1974.1
7.5°	1946.0	1968.5	1944.3	1938.7	1951.0
10°	1930.2	1954.9	1927.4	1920.5	1927.4
12.5°	1902.1	1928.0	1906.1	1894.7	1900.4
15°	1864.2	1880.7	1864.2	1853.0	1853.0
17.5°	1817.9	1835.2	1804.1	1796.2	1793.1
20°	1784.1	1799.3	1765.9	1754.6	1750.1
22.5°	1739.2	1753.2	1725.4	1705.9	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°	4.9	4.3	2.7	2.2	2.2
95°	18.0	16.3	14.6	13.6	13.9
97.5°	33.1	31.5	29.4	28.4	28.7
100°	43.7	42.4	40.0	39.0	39.0
102.5°	54.0	53.2	50.8	49.8	50.1
105°	70.8	70.5	68.1	67.0	66.4
107.5°	89.4	88.8	86.1	86.0	85.4
110°	101.3	100.9	98.6	98.2	97.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	113.5	113.9	111.3	111.0	110.6
115°	132.8	133.4	130.4	130.1	129.7
117.5°	152.6	153.5	150.3	149.9	149.3
120°	165.3	167.3	163.3	162.9	162.6
122.5°	178.3	180.0	176.3	175.7	175.6
125°	197.8	200.1	196.1	195.4	195.8
127.5°	217.3	219.7	216.0	214.6	215.4
130°	230.3	233.0	229.0	227.6	228.6
132.5°	243.6	246.2	242.2	240.9	242.4
135°	263.5	266.2	261.8	259.9	262.5
137.5°	283.0	285.3	280.5	279.2	281.9
140°	295.7	298.0	293.0	291.4	294.7
142.5°	308.2	310.7	305.2	303.6	307.1
145°	326.5	329.2	323.8	322.2	325.2
147.5°	344.1	346.8	341.4	339.5	342.6
150°	355.0	357.9	352.3	350.6	354.0
152.5°	365.5	368.8	362.8	361.0	365.1
155°	381.0	384.4	378.0	376.4	380.4
157.5°	395.0	398.1	392.3	390.7	394.1
160°	403.4	406.7	400.7	399.1	403.1
162.5°	410.7	414.0	408.6	406.4	410.4
165°	420.7	424.3	418.6	416.4	420.7
167.5°	429.0	432.9	426.9	424.8	429.1
170°	433.9	437.5	431.5	428.9	433.2
172.5°	437.1	440.8	434.8	432.1	435.1
175°	440.7	444.6	438.6	436.0	437.6
177.5°	442.2	445.4	440.6	438.2	441.9
180°	441.7	441.7	441.7	441.7	441.7



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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	20.42	21.62	21.06	22.28	23.03	19.34	20.54	19.98	21.20	21.95
	3H	22.11	23.19	22.76	23.85	24.65	20.78	21.86	21.43	22.52	23.31
	4H	22.75	23.77	23.43	24.45	25.25	21.31	22.33	21.99	23.01	23.81
	6H	23.16	24.10	23.85	24.79	25.60	21.64	22.58	22.33	23.27	24.09
	8H	23.30	24.20	24.00	24.91	25.73	21.78	22.67	22.48	23.38	24.20
	12H	23.38	24.24	24.09	24.94	25.79	21.86	22.72	22.57	23.42	24.27
4H	2H	20.86	21.88	21.54	22.56	23.36	20.01	21.03	20.69	21.70	22.51
	3H	22.78	23.63	23.48	24.35	25.17	21.66	22.50	22.35	23.22	24.04
	4H	23.55	24.32	24.26	25.04	25.89	22.28	23.05	22.98	23.76	24.62
	6H	24.07	24.74	24.80	25.48	26.34	22.71	23.37	23.43	24.12	24.98
	8H	24.27	24.89	25.00	25.63	26.50	22.88	23.51	23.62	24.25	25.12
	12H	24.38	24.94	25.13	25.71	26.58	23.01	23.57	23.76	24.33	25.21
8H	4H	23.70	24.33	24.43	25.07	25.94	22.56	23.19	23.30	23.93	24.80
	6H	24.34	24.85	25.10	25.64	26.51	23.11	23.62	23.87	24.41	25.28
	8H	24.61	25.07	25.39	25.86	26.75	23.36	23.82	24.14	24.61	25.50
	12H	24.79	25.20	25.57	25.97	26.93	23.55	23.96	24.33	24.73	25.68
12H	4H	23.69	24.25	24.44	25.02	25.90	22.58	23.14	23.33	23.91	24.79
	6H	24.35	24.81	25.13	25.60	26.49	23.16	23.63	23.94	24.41	25.30
	8H	24.67	25.08	25.45	25.85	26.80	23.46	23.87	24.24	24.64	25.59