

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: P824295

Luminaire Tested: CB3-D-055U-120D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824295  
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-055U-120D-830-1D-UNV-STD-W-4  
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER  
3-INCH APERTURE  
DOWNLIGHT 1200 LUMENS PER FOOT  
UPLIGHT 550 LUMENS PER FOOT  
Light Source: 80 CRI, 3000K CCT LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6440.3 lumens  
Efficiency: N/A  
Efficacy: 119.0 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

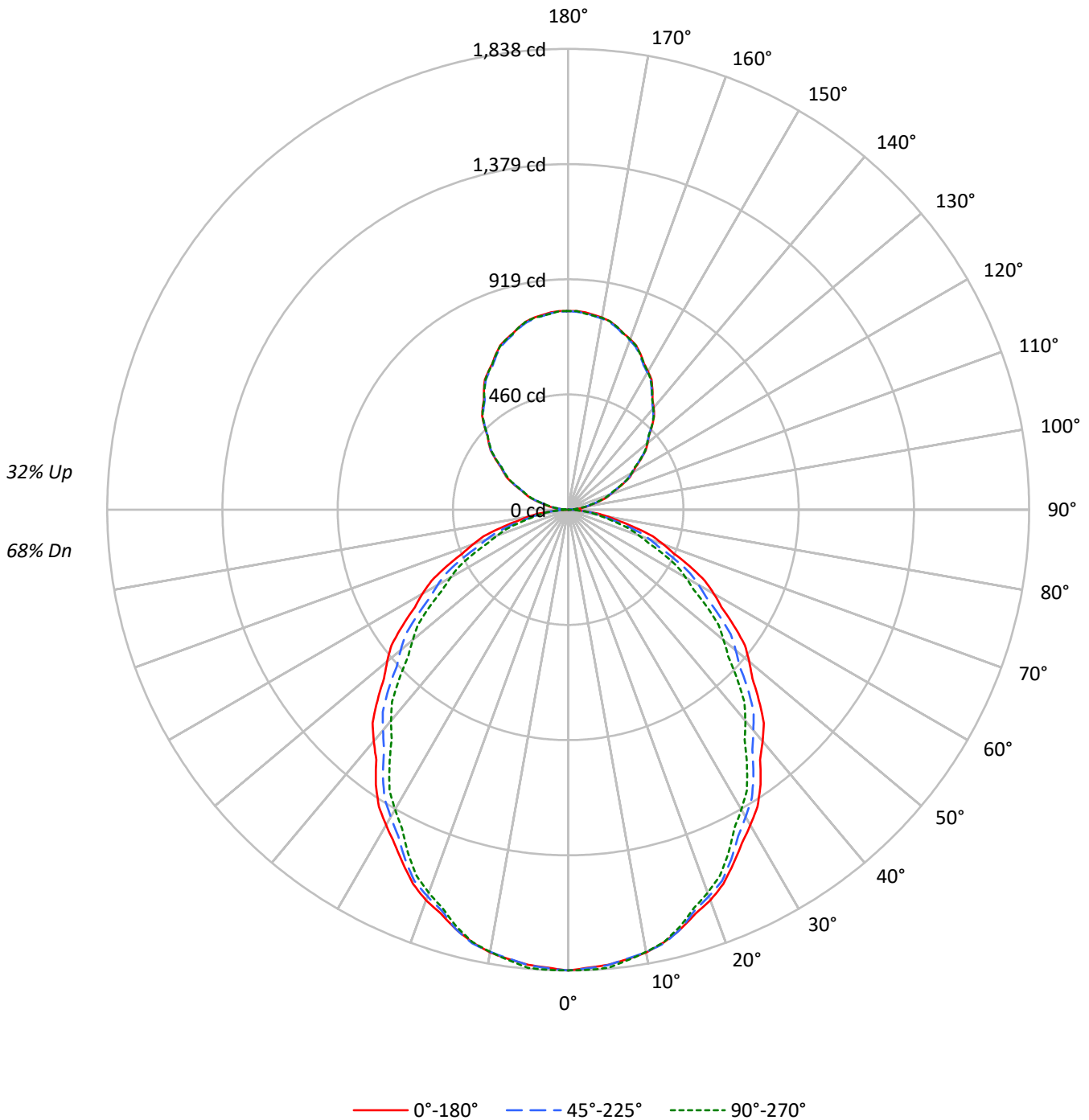
Input Watts (W): 54.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	111	111	111	111	105	105	105	105	93	93	93	83	83	83	73	73	73	68
1	102	98	94	90	96	92	89	86	82	80	77	73	71	70	65	63	62	58
2	93	86	79	74	88	81	76	71	73	68	65	65	61	59	57	55	53	49
3	85	76	68	62	80	72	65	60	64	59	55	57	53	50	51	48	45	42
4	78	67	59	53	73	64	56	51	57	51	47	51	47	43	46	42	39	36
5	72	60	52	46	68	57	50	44	51	45	41	46	41	37	41	37	34	31
6	66	54	46	40	63	51	44	38	47	40	36	42	37	33	38	34	30	28
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27	25
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	32	27	24	22
9	53	41	33	28	50	39	32	27	36	30	25	32	27	24	29	25	22	20
10	50	38	30	25	47	36	29	25	33	27	23	30	25	22	27	23	20	18

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

	0°	45°	90°
0°	20793	20793	20793
5°	20695	20710	20835
10°	20605	20575	20575
15°	20289	20289	20166
20°	19960	19755	19576
25°	19449	19205	18862
30°	18973	18479	18036
35°	18473	17788	17158
40°	17807	16959	16226
45°	17203	16222	15220
50°	16583	15342	14240
55°	15907	14491	13307
60°	15177	13611	12254
65°	14323	12610	11143
70°	13339	11440	9928
75°	12092	10037	8839
80°	10543	8418	7819
85°	8127	7114	7114

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17203 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.4	2.7
10°-20°	487.1	7.6
20°-30°	707.6	11.0
30°-40°	804.4	12.5
40°-50°	780.9	12.1
50°-60°	659.3	10.2
60°-70°	469.1	7.3
70°-80°	250.6	3.9
80°-90°	66.2	1.0
90°-100°	33.5	0.5
100°-110°	131.0	2.0
110°-120°	233.4	3.6
120°-130°	315.9	4.9
130°-140°	363.2	5.6
140°-150°	364.4	5.7
150°-160°	313.4	4.9
160°-170°	212.1	3.3
170°-180°	74.8	1.2
0°-30°	1368.1	21.2
0°-40°	2172.5	33.7
0°-60°	3612.7	56.1
0°-90°	4398.6	68.3
90°-120°	397.9	6.2
90°-150°	1441.4	22.4
90°-180°	2042.0	31.7
0°-180°	6440.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1838	1838	1838	1838	1838	
5°	1822	1845	1823	1821	1834	173
15°	1732	1747	1732	1722	1722	488
25°	1558	1563	1538	1517	1511	718
35°	1337	1325	1288	1250	1242	833
45°	1075	1059	1014	965	951	829
55°	806	785	735	687	675	721
65°	535	516	471	429	416	530
75°	277	261	230	206	202	295
85°	63	58	55	55	55	74
90°	0	0	0	0	0	4
95°	32	29	26	24	25	37
105°	127	126	122	120	119	136
115°	238	239	234	233	233	236
125°	355	359	352	350	351	317
135°	473	477	470	466	471	364
145°	586	590	581	578	583	366
155°	683	689	678	675	682	314
165°	754	761	751	747	754	213
175°	790	797	787	782	785	75
180°	792	792	792	792	792	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1837.7	1837.7	1837.7	1837.7	1837.7
2.5°	1828.3	1846.7	1830.4	1832.6	1836.7
5°	1822.1	1845.0	1823.4	1821.1	1834.4
7.5°	1808.0	1828.9	1806.4	1801.2	1812.7
10°	1793.4	1816.3	1790.8	1784.4	1790.8
12.5°	1767.3	1791.3	1770.9	1760.4	1765.7
15°	1732.1	1747.4	1732.1	1721.6	1721.6
17.5°	1689.0	1705.1	1676.2	1668.8	1665.9
20°	1657.7	1671.7	1640.7	1630.2	1625.8
22.5°	1615.9	1628.9	1603.1	1584.8	1579.8
25°	1557.9	1563.0	1538.3	1517.3	1510.9
27.5°	1500.2	1501.5	1467.6	1442.1	1433.7
30°	1452.2	1453.5	1414.4	1386.8	1380.5
32.5°	1404.2	1400.4	1363.2	1330.5	1326.2
35°	1337.4	1324.6	1287.8	1249.8	1242.2
37.5°	1256.8	1249.1	1205.6	1167.5	1156.0
40°	1205.6	1192.9	1148.2	1110.1	1098.6
42.5°	1154.5	1139.7	1093.9	1051.6	1039.1
45°	1075.1	1058.6	1013.8	965.2	951.2
47.5°	995.3	977.2	928.0	880.9	865.3
50°	942.1	922.9	871.6	825.6	809.0
52.5°	887.8	867.6	816.3	769.3	755.7
55°	806.4	784.7	734.6	687.3	674.6
57.5°	724.9	703.5	653.7	609.0	593.7
60°	670.7	650.2	601.5	556.8	541.5
62.5°	615.3	595.9	548.3	504.6	490.3
65°	535.0	515.8	471.0	429.0	416.2
67.5°	455.4	439.0	394.8	356.2	346.0
70°	403.2	387.9	345.8	310.3	300.1
72.5°	353.1	336.7	296.7	266.5	259.4
75°	276.6	261.3	229.6	206.1	202.2
77.5°	206.7	194.2	166.8	153.4	151.4
80°	161.8	150.3	129.2	120.0	120.0
82.5°	120.0	110.6	96.8	92.9	92.9
85°	62.6	57.5	54.8	54.8	54.8
87.5°	18.8	18.8	17.7	16.7	16.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.7	7.8	4.9	3.9	3.9
95°	32.2	29.2	26.1	24.3	24.9
97.5°	59.4	56.6	52.7	50.9	51.4
100°	78.4	76.0	71.7	69.9	69.9
102.5°	96.8	95.4	91.1	89.3	89.8
105°	127.0	126.4	122.1	120.2	119.1
107.5°	160.2	159.2	154.4	154.3	153.2
110°	181.6	181.0	176.8	176.1	175.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	203.5	204.3	199.6	199.0	198.4
115°	238.1	239.3	233.9	233.2	232.6
117.5°	273.6	275.2	269.5	268.8	267.8
120°	296.4	300.0	292.8	292.2	291.6
122.5°	319.8	322.8	316.1	315.0	314.9
125°	354.7	358.9	351.7	350.5	351.1
127.5°	389.7	394.0	387.3	384.9	386.2
130°	413.1	417.8	410.6	408.2	410.0
132.5°	436.9	441.6	434.4	432.1	434.8
135°	472.6	477.3	469.5	466.0	470.8
137.5°	507.4	511.6	503.1	500.6	505.6
140°	530.3	534.4	525.4	522.5	528.5
142.5°	552.6	557.3	547.3	544.4	550.8
145°	585.6	590.3	580.7	577.8	583.1
147.5°	617.1	622.0	612.3	608.9	614.4
150°	636.6	641.9	631.7	628.8	634.8
152.5°	655.5	661.4	650.7	647.3	654.7
155°	683.4	689.3	677.9	675.0	682.1
157.5°	708.4	713.8	703.5	700.6	706.8
160°	723.4	729.4	718.6	715.7	722.8
162.5°	736.6	742.5	732.7	728.8	736.0
165°	754.4	761.0	750.8	746.7	754.4
167.5°	769.4	776.4	765.6	761.9	769.6
170°	778.1	784.6	773.9	769.2	776.9
172.5°	783.9	790.5	779.7	775.0	780.3
175°	790.3	797.4	786.6	781.8	784.8
177.5°	793.1	798.8	790.1	785.9	792.6
180°	792.1	792.1	792.1	792.1	792.1



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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	19.23	20.27	20.02	21.08	22.06	18.16	19.19	18.94	20.00	20.98
	3H	20.91	21.85	21.71	22.66	23.67	19.58	20.51	20.38	21.33	22.34
	4H	21.55	22.43	22.37	23.25	24.28	20.11	20.99	20.92	21.81	22.84
	6H	21.95	22.76	22.78	23.59	24.63	20.44	21.25	21.26	22.08	23.12
	8H	22.09	22.86	22.93	23.71	24.75	20.56	21.33	21.40	22.18	23.22
	12H	22.16	22.90	23.01	23.74	24.81	20.64	21.38	21.49	22.22	23.29
4H	2H	19.66	20.54	20.48	21.37	22.39	18.81	19.68	19.63	20.51	21.53
	3H	21.57	22.30	22.40	23.16	24.20	20.44	21.17	21.27	22.03	23.07
	4H	22.33	22.99	23.17	23.85	24.92	21.05	21.72	21.90	22.57	23.64
	6H	22.84	23.41	23.70	24.29	25.37	21.48	22.05	22.34	22.93	24.00
	8H	23.03	23.57	23.90	24.44	25.53	21.65	22.19	22.51	23.06	24.15
	12H	23.14	23.62	24.02	24.52	25.61	21.76	22.25	22.65	23.14	24.23
8H	4H	22.47	23.01	23.33	23.88	24.97	21.33	21.87	22.19	22.74	23.83
	6H	23.09	23.54	23.99	24.46	25.54	21.87	22.31	22.76	23.23	24.31
	8H	23.37	23.77	24.27	24.68	25.78	22.12	22.51	23.02	23.42	24.53
	12H	23.54	23.89	24.45	24.79	25.95	22.30	22.65	23.21	23.55	24.71
12H	4H	22.45	22.93	23.33	23.83	24.92	21.34	21.82	22.22	22.72	23.81
	6H	23.11	23.51	24.01	24.42	25.52	21.92	22.32	22.83	23.23	24.33
	8H	23.42	23.77	24.33	24.67	25.82	22.21	22.56	23.12	23.46	24.62