

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: P824190

Luminaire Tested: CB2-D-055U-030D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824190  
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-055U-030D-830-1D-UNV-STD-W-4  
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER  
2-INCH APERTURE  
DOWNLIGHT 300 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: 3101.7 lumens  
Efficiency: N/A  
Efficacy: 120.7 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

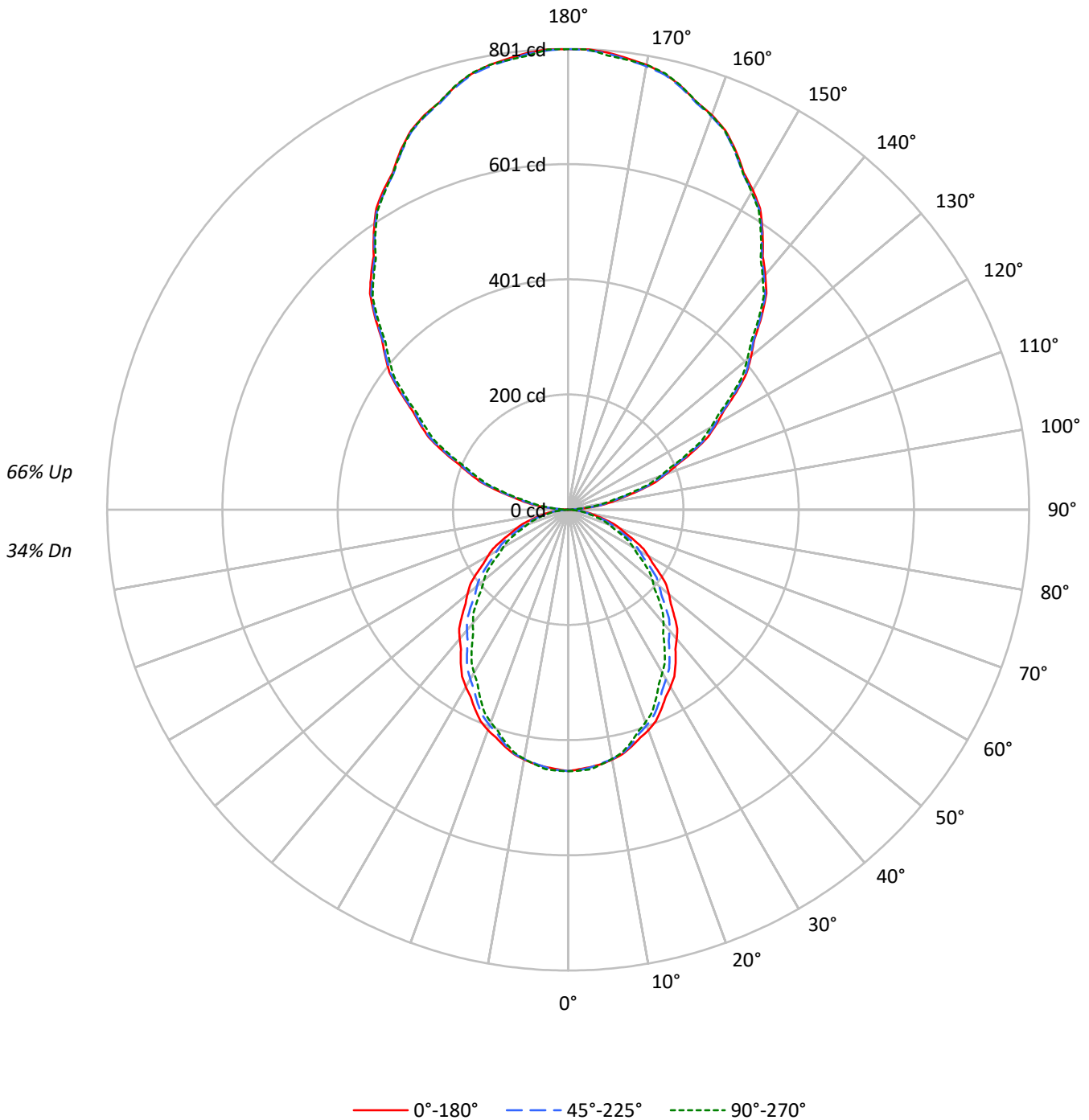
Input Watts (W): 25.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	103	103	103	103	93	93	93	93	75	75	75	57	57	57	42	42	42	34
1	94	90	86	83	85	82	78	76	65	63	61	51	49	48	37	36	35	29
2	86	79	73	68	77	71	66	62	57	54	51	45	42	40	33	31	30	25
3	78	69	62	57	71	63	57	52	51	46	43	39	37	34	29	27	26	21
4	72	61	54	48	65	56	49	44	45	40	37	35	32	29	26	24	22	18
5	66	55	47	41	59	50	43	38	40	35	32	32	28	25	23	21	19	16
6	61	49	41	36	55	45	38	33	36	31	27	29	25	22	21	19	17	14
7	56	44	36	31	50	40	34	29	33	28	24	26	22	20	19	17	15	12
8	52	40	33	27	47	37	30	25	30	25	21	24	20	18	18	15	14	11
9	48	36	29	24	44	33	27	23	27	23	19	22	18	16	17	14	12	10
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	15	13	11	9

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

	0°	45°	90°
0°	7914	7914	7914
5°	7849	7861	7915
10°	7803	7785	7778
15°	7680	7629	7566
20°	7559	7392	7288
25°	7355	7149	6947
30°	7152	6836	6579
35°	6917	6517	6207
40°	6669	6218	5855
45°	6419	5904	5510
50°	6194	5601	5175
55°	5918	5284	4862
60°	5601	4981	4546
65°	5263	4645	4228
70°	4889	4273	3830
75°	4448	3863	3466
80°	3982	3390	3139
85°	3058	2778	2298

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6419 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.7	1.4
10°-20°	119.1	3.8
20°-30°	171.3	5.5
30°-40°	192.5	6.2
40°-50°	186.0	6.0
50°-60°	157.1	5.1
60°-70°	112.9	3.6
70°-80°	61.7	2.0
80°-90°	16.4	0.5
90°-100°	30.9	1.0
100°-110°	127.6	4.1
110°-120°	231.6	7.5
120°-130°	315.1	10.2
130°-140°	363.8	11.7
140°-150°	366.6	11.8
150°-160°	316.4	10.2
160°-170°	214.4	6.9
170°-180°	75.6	2.4
0°-30°	333.1	10.7
0°-40°	525.6	16.9
0°-60°	868.7	28.0
0°-90°	1059.7	34.2
90°-120°	390.1	12.6
90°-150°	1435.6	46.3
90°-180°	2042.0	65.8
0°-180°	3101.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	454	454	454	454	454	
5°	449	455	450	450	453	43
15°	426	430	423	419	420	120
25°	383	383	372	364	362	176
35°	325	322	306	295	292	203
45°	261	255	240	227	224	201
55°	195	188	174	163	160	174
65°	128	123	113	105	103	127
75°	66	62	57	53	52	71
85°	15	14	14	12	12	18
90°	0	0	1	0	1	2
95°	30	26	25	19	19	35
105°	126	124	121	114	113	134
115°	240	239	235	228	227	237
125°	357	360	353	345	346	318
135°	475	481	473	464	467	366
145°	589	596	586	580	584	368
155°	689	696	686	682	687	317
165°	761	769	759	755	762	214
175°	798	806	796	791	792	76
180°	801	801	801	801	801	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	454.4	454.4	454.4	454.4	454.4
2.5°	451.4	456.8	452.8	453.3	454.1
5°	448.9	455.0	449.6	449.6	452.7
7.5°	445.7	451.4	444.6	443.4	446.2
10°	441.2	447.0	440.2	437.8	439.8
12.5°	435.4	440.9	434.3	430.5	432.3
15°	425.9	429.6	423.1	419.0	419.6
17.5°	415.6	417.9	408.5	405.0	404.3
20°	407.8	409.8	398.8	393.9	393.2
22.5°	397.8	399.5	387.9	381.9	380.9
25°	382.7	383.1	372.0	363.6	361.5
27.5°	367.0	365.9	353.6	343.6	341.0
30°	355.6	354.2	339.9	329.5	327.1
32.5°	343.4	340.9	326.6	315.3	312.9
35°	325.3	321.6	306.5	294.7	291.9
37.5°	306.1	301.9	287.1	274.2	271.1
40°	293.3	288.6	273.5	260.5	257.5
42.5°	280.5	275.2	259.9	246.9	243.6
45°	260.6	255.2	239.7	227.1	223.7
47.5°	241.7	234.7	219.8	207.2	203.8
50°	228.6	221.1	206.7	194.4	191.0
52.5°	215.2	207.5	193.6	181.9	178.5
55°	194.9	187.7	174.0	163.1	160.1
57.5°	174.7	167.8	155.3	144.9	141.9
60°	160.8	155.0	143.0	133.2	130.5
62.5°	147.4	142.2	130.8	121.8	119.1
65°	127.7	122.9	112.7	104.7	102.6
67.5°	108.6	103.8	95.5	88.3	86.0
70°	96.0	91.3	83.9	77.2	75.2
72.5°	84.1	79.0	73.0	66.9	65.4
75°	66.1	62.0	57.4	52.9	51.5
77.5°	50.2	46.3	42.9	39.7	39.4
80°	39.7	36.3	33.8	31.7	31.3
82.5°	29.6	27.1	25.4	23.9	23.8
85°	15.3	14.3	13.9	12.2	11.5
87.5°	4.5	4.5	4.0	3.3	3.5
90°	0.0	0.0	0.6	0.0	0.6
92.5°	7.5	6.5	6.1	4.0	4.6
95°	30.0	26.3	25.0	19.4	19.4
97.5°	56.6	52.9	51.0	45.2	44.0
100°	75.6	71.9	69.9	63.7	62.5
102.5°	95.1	93.3	89.9	83.2	81.9
105°	126.2	124.3	121.2	114.3	113.0
107.5°	158.1	158.5	153.8	148.1	146.4
110°	181.1	180.5	176.7	171.1	169.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	204.6	203.5	199.7	194.1	192.9
115°	239.8	239.2	234.8	227.9	227.3
117.5°	273.3	275.3	270.1	262.8	262.6
120°	297.3	299.7	293.5	287.3	286.0
122.5°	320.8	323.7	317.5	310.3	310.5
125°	356.6	360.3	352.9	345.4	346.0
127.5°	391.2	395.7	388.8	381.2	382.0
130°	414.7	420.2	412.8	404.7	406.0
132.5°	438.7	444.2	436.8	428.2	430.4
135°	475.3	480.8	472.8	464.1	467.2
137.5°	509.8	515.3	506.5	499.2	502.9
140°	532.7	538.2	529.0	522.2	525.9
142.5°	555.2	561.7	552.0	544.7	549.4
145°	588.9	595.7	586.4	579.7	584.0
147.5°	620.9	627.6	618.3	611.8	616.2
150°	641.4	648.1	638.3	632.8	637.7
152.5°	660.4	668.1	657.8	652.3	658.6
155°	688.9	695.6	685.8	681.5	687.0
157.5°	713.6	721.4	711.6	708.0	712.4
160°	730.1	737.4	727.6	724.0	728.8
162.5°	742.6	750.4	741.1	737.0	742.8
165°	761.3	769.3	759.4	755.2	761.9
167.5°	776.1	784.5	774.6	770.2	777.1
170°	785.1	793.0	782.6	777.7	785.1
172.5°	791.1	799.5	788.6	783.7	788.6
175°	797.5	806.1	795.7	790.7	792.5
177.5°	800.7	807.5	799.2	794.8	800.7
180°	800.7	800.7	800.7	800.7	800.7

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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	12.51	13.24	13.59	14.32	15.80	11.41	12.14	12.50	13.22	14.70
	3H	14.15	14.80	15.24	15.89	17.39	12.93	13.58	14.02	14.67	16.17
	4H	14.77	15.39	15.87	16.48	17.98	13.50	14.11	14.60	15.21	16.71
	6H	15.16	15.73	16.28	16.83	18.34	13.86	14.43	14.97	15.52	17.04
	8H	15.31	15.85	16.42	16.96	18.47	14.00	14.54	15.11	15.65	17.16
	12H	15.38	15.89	16.50	17.00	18.53	14.05	14.57	15.18	15.67	17.21
4H	2H	12.90	13.52	14.01	14.61	16.12	12.03	12.65	13.14	13.74	15.24
	3H	14.76	15.28	15.88	16.39	17.91	13.75	14.27	14.87	15.39	16.90
	4H	15.50	15.97	16.62	17.08	18.62	14.42	14.89	15.54	16.00	17.54
	6H	16.01	16.42	17.14	17.55	19.08	14.89	15.29	16.02	16.42	17.95
	8H	16.21	16.59	17.34	17.72	19.26	15.07	15.45	16.20	16.58	18.12
	12H	16.31	16.66	17.46	17.79	19.34	15.16	15.50	16.30	16.64	18.19
8H	4H	15.65	16.02	16.77	17.15	18.69	14.68	15.06	15.81	16.18	17.73
	6H	16.28	16.60	17.43	17.76	19.30	15.28	15.59	16.43	16.76	18.30
	8H	16.57	16.85	17.73	17.99	19.55	15.56	15.83	16.71	16.97	18.54
	12H	16.74	16.98	17.90	18.12	19.72	15.70	15.94	16.86	17.08	18.68
12H	4H	15.62	15.96	16.76	17.10	18.65	14.68	15.02	15.82	16.16	17.71
	6H	16.31	16.58	17.47	17.73	19.29	15.34	15.62	16.50	16.76	18.33
	8H	16.62	16.86	17.78	18.00	19.60	15.64	15.88	16.80	17.03	18.63