

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: P824239

Luminaire Tested: CB2-0U-XD-840-B06-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824239  
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: CB2-0U-XD-840-B06-UNV-STD-W-4  
Description: CORELITE Bryx SLOT LED LUMINAIRE  
2-INCH APERTURE  
DOWNLIGHT UNDER 6W BATTERY POWER  
DIRECT ONLY  
Light Source: 80 CRI, 4000K CCT LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 680.3 lumens  
Efficiency: N/A  
Efficacy: 113.4 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: Direct

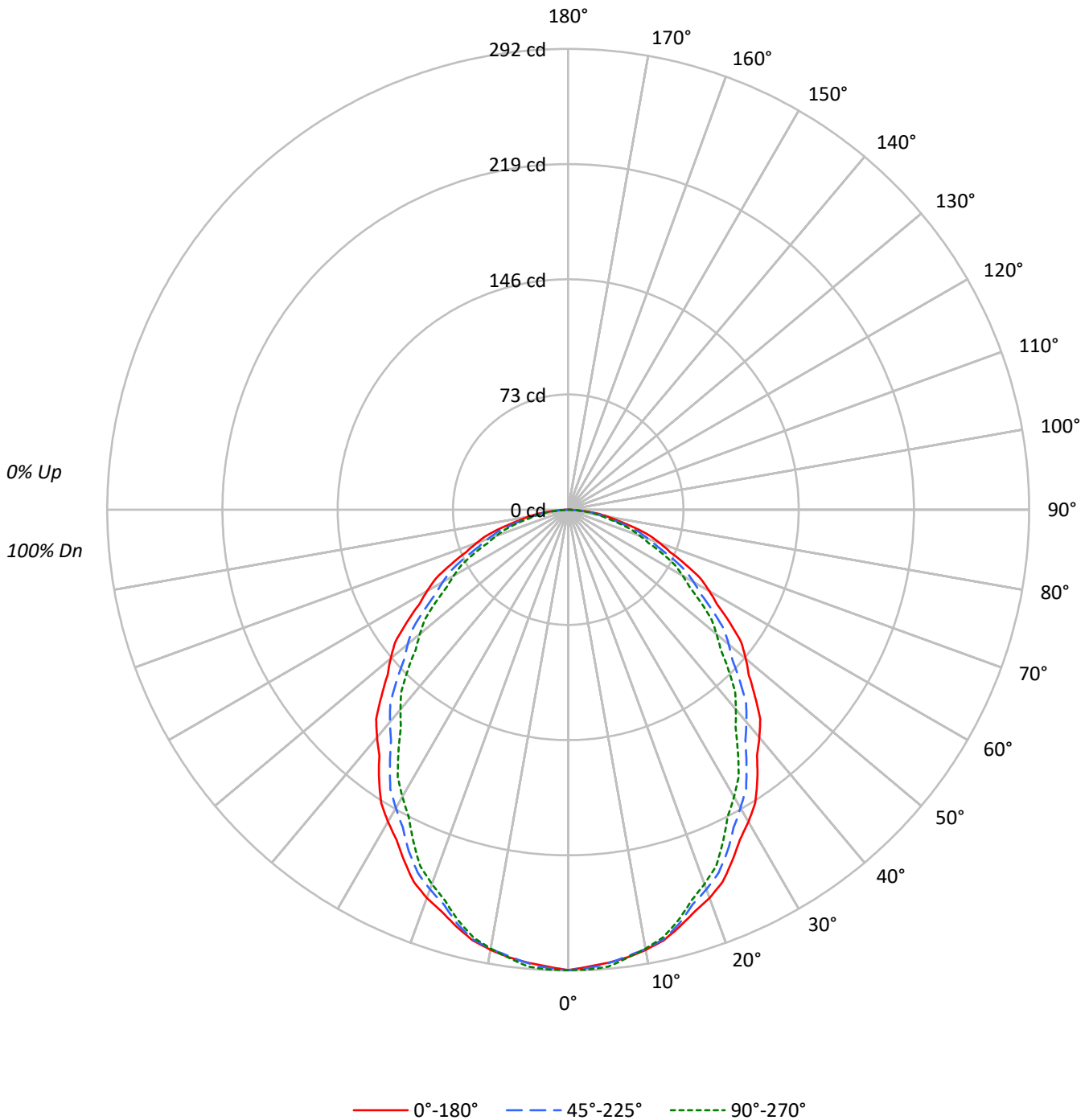
Input Watts (W): 6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	101	97	107	103	99	95	98	95	92		94	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		83	79	76		80	77	74	72
3	91	81	74	67	89	80	73	67	77	71	66		74	69	64		72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	78	65	56	50	76	64	56	50	62	55	49		60	54	49		58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43		55	48	43		53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39		50	43	38		49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35		46	39	35		45	39	34	33
9	58	45	37	32	57	45	37	32	44	37	32		42	36	31		41	36	31	29
10	55	42	34	29	54	41	34	29	40	34	29		39	33	29		39	33	29	27

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

	0°	45°	90°
0°	5081	5081	5081
5°	5039	5046	5081
10°	5009	4998	4995
15°	4930	4897	4858
20°	4853	4745	4678
25°	4722	4589	4460
30°	4592	4388	4223
35°	4442	4184	3985
40°	4281	3993	3758
45°	4121	3791	3537
50°	3978	3596	3322
55°	3799	3392	3122
60°	3595	3198	2919
65°	3379	2984	2716
70°	3142	2740	2460
75°	2853	2483	2227
80°	2558	2177	2016
85°	1958	1779	1479

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4121 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.4	4.0
10°-20°	76.5	11.2
20°-30°	110.0	16.2
30°-40°	123.6	18.2
40°-50°	119.4	17.5
50°-60°	100.9	14.8
60°-70°	72.5	10.6
70°-80°	39.6	5.8
80°-90°	10.5	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	213.9	31.4
0°-40°	337.5	49.6
0°-60°	557.7	82.0
0°-90°	680.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	680.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	292	292	292	292	292	
5°	288	292	289	289	291	27
15°	273	276	272	269	269	77
25°	246	246	239	233	232	113
35°	209	206	197	189	187	130
45°	167	164	154	146	144	129
55°	125	120	112	105	103	112
65°	82	79	72	67	66	81
75°	42	40	37	34	33	45
85°	10	9	9	8	7	12
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	291.7	291.7	291.7	291.7	291.7
2.5°	289.8	293.3	290.7	291.0	291.6
5°	288.2	292.1	288.6	288.7	290.6
7.5°	286.1	289.8	285.4	284.6	286.5
10°	283.2	287.0	282.6	281.0	282.4
12.5°	279.5	283.0	278.8	276.4	277.5
15°	273.4	275.8	271.6	269.0	269.4
17.5°	266.8	268.3	262.2	260.0	259.6
20°	261.8	263.1	256.0	252.9	252.4
22.5°	255.4	256.5	249.0	245.2	244.6
25°	245.7	245.9	238.8	233.4	232.1
27.5°	235.6	234.9	227.0	220.6	218.9
30°	228.3	227.4	218.2	211.5	210.0
32.5°	220.4	218.9	209.7	202.4	200.9
35°	208.9	206.5	196.8	189.2	187.4
37.5°	196.5	193.8	184.3	176.0	174.1
40°	188.3	185.3	175.6	167.3	165.3
42.5°	180.1	176.7	166.8	158.5	156.4
45°	167.3	163.8	153.9	145.8	143.6
47.5°	155.2	150.7	141.1	133.0	130.9
50°	146.8	142.0	132.7	124.8	122.6
52.5°	138.2	133.2	124.3	116.8	114.6
55°	125.1	120.5	111.7	104.7	102.8
57.5°	112.1	107.7	99.7	93.0	91.1
60°	103.2	99.5	91.8	85.5	83.8
62.5°	94.6	91.3	83.9	78.2	76.4
65°	82.0	78.9	72.4	67.2	65.9
67.5°	69.7	66.6	61.3	56.7	55.2
70°	61.7	58.6	53.8	49.6	48.3
72.5°	54.0	50.7	46.9	43.0	42.0
75°	42.4	39.8	36.9	33.9	33.1
77.5°	32.3	29.7	27.6	25.5	25.3
80°	25.5	23.3	21.7	20.3	20.1
82.5°	19.0	17.4	16.3	15.3	15.3
85°	9.8	9.2	8.9	7.8	7.4
87.5°	2.9	2.9	2.5	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0



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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	16.50	18.08	16.86	18.39	18.70	15.40	16.98	15.76	17.29	17.61
	3H	18.19	19.61	18.57	19.94	20.30	16.98	18.40	17.35	18.73	19.09
	4H	18.85	20.19	19.25	20.54	20.91	17.58	18.92	17.98	19.27	19.64
	6H	19.29	20.53	19.70	20.89	21.28	17.99	19.22	18.40	19.59	19.98
	8H	19.46	20.64	19.88	21.03	21.43	18.15	19.33	18.57	19.72	20.12
	12H	19.55	20.68	19.98	21.07	21.49	18.23	19.36	18.66	19.74	20.17
4H	2H	16.99	18.32	17.39	18.67	19.05	16.11	17.45	16.51	17.80	18.18
	3H	18.92	20.03	19.33	20.43	20.83	17.91	19.03	18.32	19.42	19.83
	4H	19.69	20.70	20.12	21.11	21.55	18.61	19.62	19.04	20.03	20.47
	6H	20.25	21.13	20.70	21.57	22.03	19.12	20.00	19.58	20.44	20.90
	8H	20.47	21.29	20.93	21.73	22.20	19.33	20.15	19.79	20.59	21.06
	12H	20.61	21.34	21.09	21.82	22.29	19.45	20.19	19.93	20.66	21.13
8H	4H	19.90	20.72	20.36	21.17	21.63	18.94	19.76	19.40	20.20	20.67
	6H	20.57	21.25	21.07	21.74	22.22	19.57	20.25	20.06	20.74	21.22
	8H	20.87	21.48	21.38	21.99	22.47	19.85	20.46	20.36	20.97	21.46
	12H	21.07	21.61	21.58	22.11	22.67	20.03	20.57	20.54	21.06	21.63
12H	4H	19.91	20.65	20.39	21.13	21.60	18.97	19.71	19.46	20.19	20.66
	6H	20.60	21.22	21.12	21.72	22.21	19.64	20.25	20.15	20.76	21.24
	8H	20.95	21.50	21.46	21.99	22.55	19.98	20.52	20.48	21.01	21.57