

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: P824331

Luminaire Tested: CB3-0U-XD-830-B06-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824331
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: CB3-0U-XD-830-B06-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE
3-INCH APERTURE
DOWNLIGHT UNDER 6W BATTERY POWER
DIRECT ONLY
Light Source: 80 CRI, 3000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 678.1 lumens
Efficiency: N/A
Efficacy: 113.0 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: Direct

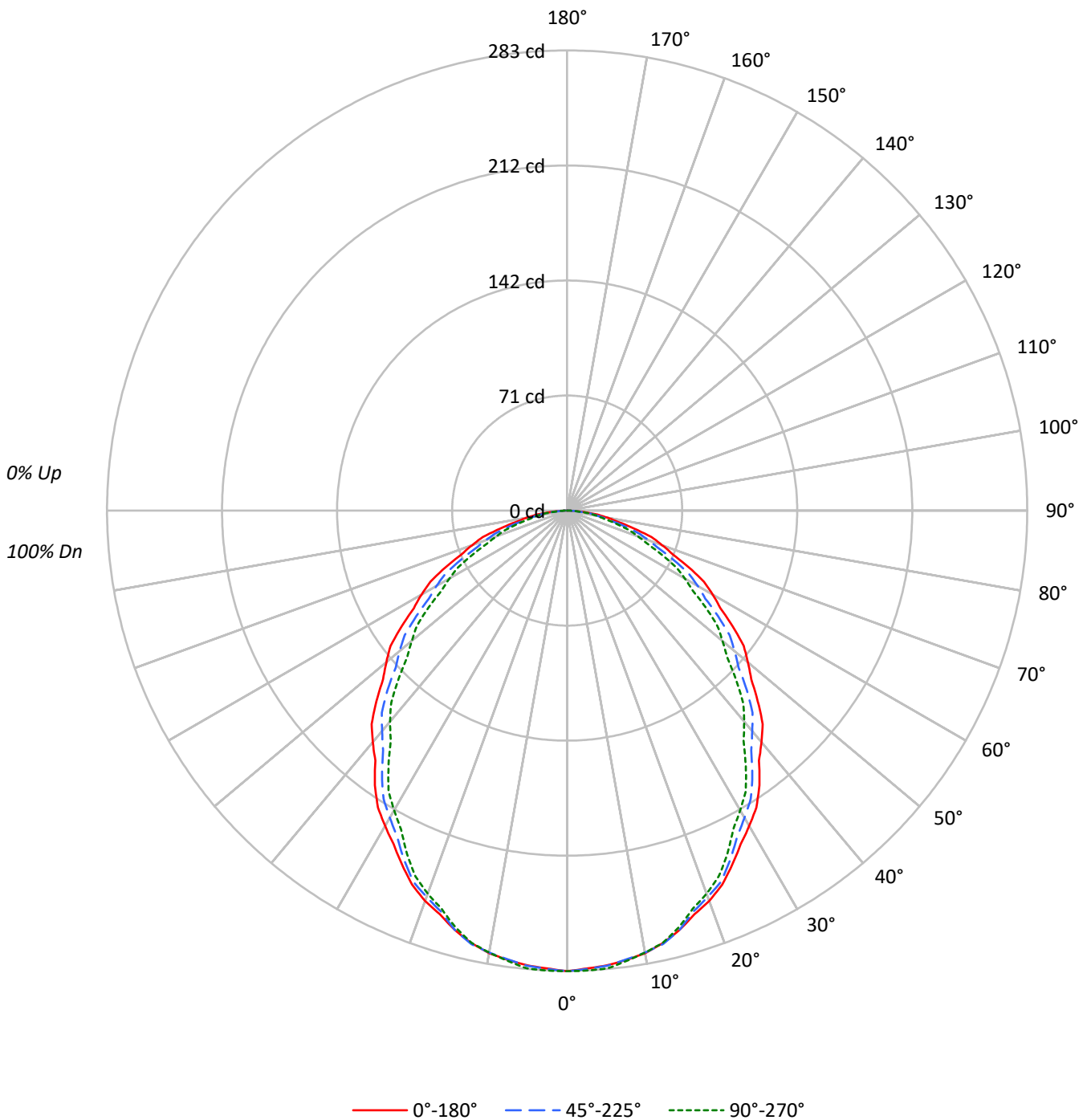
Input Watts (W): 6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	96	98	95	93		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	72	64	58	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	78	65	56	50	75	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		54	48	43		53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39		50	43	38		48	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31		42	36	31		41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29		39	33	29		38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3205	3205	3205
5°	3189	3192	3211
10°	3176	3171	3171
15°	3128	3128	3109
20°	3076	3045	3019
25°	2999	2961	2909
30°	2925	2849	2780
35°	2848	2743	2645
40°	2746	2614	2502
45°	2653	2501	2347
50°	2556	2366	2195
55°	2452	2235	2052
60°	2340	2098	1890
65°	2209	1944	1719
70°	2058	1763	1532
75°	1862	1548	1364
80°	1622	1297	1205
85°	1259	1090	1090

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2653 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.7	3.9
10°-20°	75.1	11.1
20°-30°	109.1	16.1
30°-40°	124.0	18.3
40°-50°	120.4	17.8
50°-60°	101.7	15.0
60°-70°	72.3	10.7
70°-80°	38.6	5.7
80°-90°	10.2	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°	210.9	31.1
0°-40°	334.9	49.4
0°-60°	557.0	82.1
0°-90°	678.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	678.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	283	283	283	283	283	
5°	281	284	281	281	283	27
15°	267	269	267	265	265	75
25°	240	241	237	234	233	111
35°	206	204	199	193	192	128
45°	166	163	156	149	147	128
55°	124	121	113	106	104	111
65°	82	80	73	66	64	82
75°	43	40	35	32	31	45
85°	10	9	8	8	8	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	283.3	283.3	283.3	283.3	283.3
2.5°	281.8	284.6	282.1	282.5	283.1
5°	280.8	284.4	281.0	280.7	282.7
7.5°	278.7	281.9	278.4	277.6	279.4
10°	276.4	280.0	276.0	275.0	276.0
12.5°	272.4	276.1	273.0	271.3	272.2
15°	267.0	269.3	267.0	265.4	265.4
17.5°	260.3	262.8	258.4	257.2	256.8
20°	255.5	257.7	252.9	251.3	250.7
22.5°	249.1	251.1	247.1	244.3	243.6
25°	240.2	241.0	237.2	233.9	233.0
27.5°	231.3	231.5	226.3	222.4	221.1
30°	223.9	224.1	218.1	213.8	212.8
32.5°	216.5	215.9	210.2	205.1	204.5
35°	206.2	204.2	198.6	192.7	191.5
37.5°	193.8	192.6	185.9	180.0	178.2
40°	185.9	183.9	177.0	171.2	169.4
42.5°	178.0	175.7	168.7	162.1	160.2
45°	165.8	163.2	156.3	148.8	146.7
47.5°	153.5	150.7	143.1	135.8	133.4
50°	145.2	142.3	134.4	127.3	124.7
52.5°	136.9	133.8	125.9	118.6	116.5
55°	124.3	121.0	113.3	106.0	104.0
57.5°	111.8	108.5	100.8	93.9	91.5
60°	103.4	100.3	92.7	85.8	83.5
62.5°	94.9	91.9	84.5	77.8	75.6
65°	82.5	79.5	72.6	66.1	64.2
67.5°	70.2	67.7	60.9	54.9	53.4
70°	62.2	59.8	53.3	47.8	46.3
72.5°	54.4	51.9	45.7	41.1	40.0
75°	42.6	40.3	35.4	31.8	31.2
77.5°	31.9	29.9	25.7	23.7	23.3
80°	24.9	23.2	19.9	18.5	18.5
82.5°	18.5	17.1	14.9	14.3	14.3
85°	9.7	8.9	8.4	8.4	8.4
87.5°	2.9	2.9	2.7	2.6	2.6
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	15.05	16.63	15.41	16.94	17.25	13.97	15.55	14.33	15.86	16.17
	3H	16.76	18.19	17.14	18.51	18.87	15.43	16.85	15.81	17.18	17.54
	4H	17.42	18.76	17.82	19.11	19.49	15.98	17.32	16.38	17.66	18.04
	6H	17.84	19.08	18.25	19.45	19.84	16.33	17.57	16.74	17.93	18.33
	8H	18.00	19.18	18.42	19.57	19.97	16.47	17.65	16.90	18.04	18.44
	12H	18.09	19.22	18.52	19.60	20.03	16.57	17.70	17.00	18.08	18.51
4H	2H	15.53	16.87	15.93	17.22	17.60	14.67	16.01	15.07	16.36	16.74
	3H	17.48	18.60	17.89	19.00	19.40	16.35	17.47	16.76	17.87	18.27
	4H	18.26	19.27	18.69	19.68	20.12	16.99	18.00	17.42	18.41	18.85
	6H	18.80	19.68	19.26	20.12	20.58	17.44	18.32	17.89	18.76	19.22
	8H	19.01	19.83	19.47	20.27	20.74	17.62	18.45	18.09	18.89	19.36
	12H	19.14	19.88	19.62	20.35	20.82	17.76	18.50	18.24	18.98	19.45
8H	4H	18.44	19.26	18.90	19.71	20.17	17.30	18.13	17.77	18.57	19.04
	6H	19.09	19.77	19.58	20.26	20.74	17.86	18.54	18.36	19.03	19.51
	8H	19.37	19.98	19.88	20.49	20.98	18.12	18.73	18.63	19.24	19.72
	12H	19.57	20.11	20.08	20.60	21.16	18.32	18.86	18.83	19.36	19.92
12H	4H	18.45	19.19	18.93	19.66	20.13	17.34	18.08	17.82	18.55	19.02
	6H	19.11	19.72	19.62	20.23	20.72	17.92	18.53	18.43	19.04	19.53
	8H	19.44	19.98	19.95	20.48	21.04	18.24	18.78	18.74	19.27	19.83