

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: P824235

Luminaire Tested: CB2-0U-XD-830-B06-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824235
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-830-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, 3000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 632.0 lumens
Efficiency: N/A
Efficacy: 105.3 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

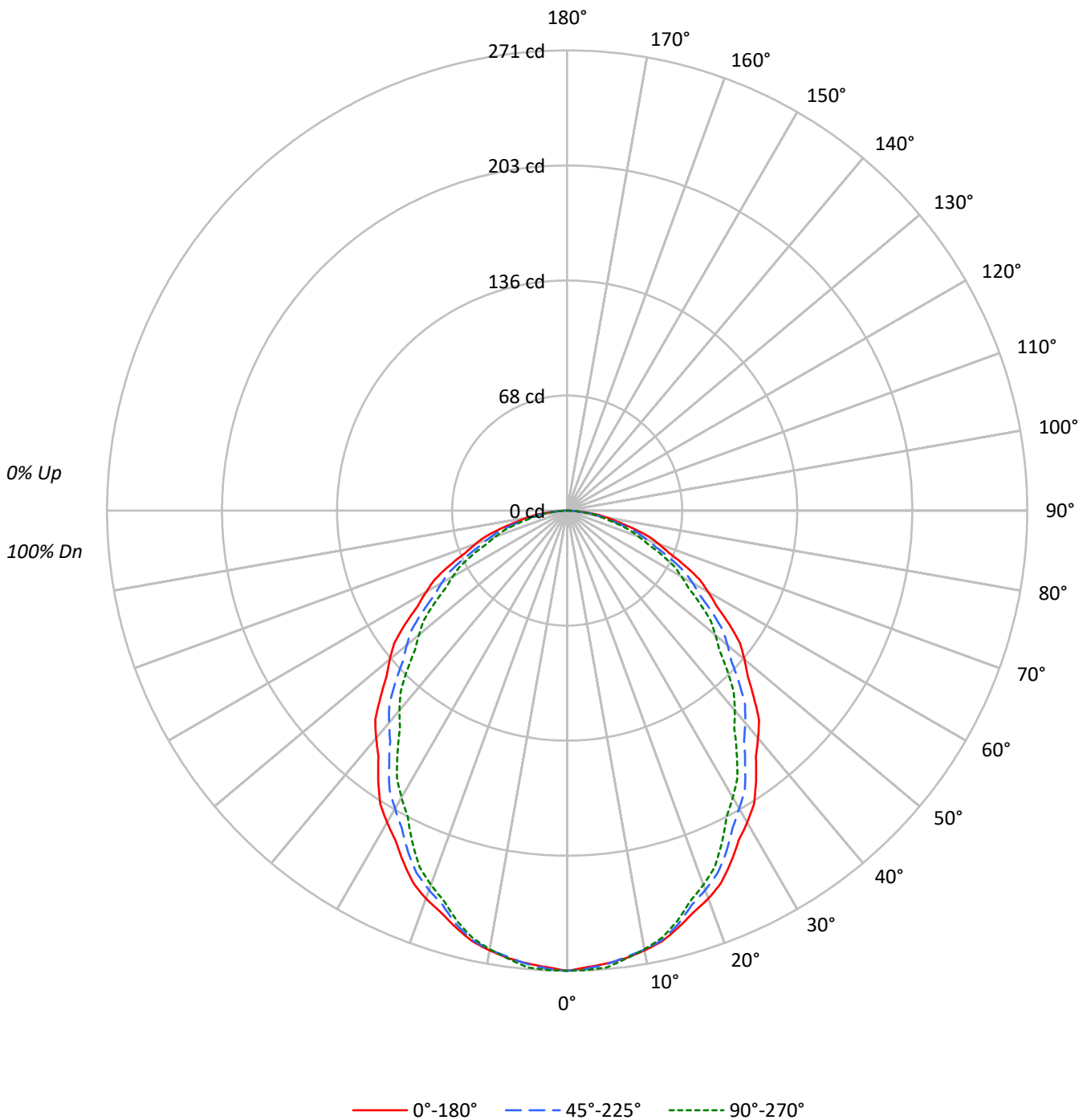
Input Watts (W): 6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85				85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72				72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53				53
5	78	65	56	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46				46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41				41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36				36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33				33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29				29
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4720	4720	4720
5°	4680	4687	4721
10°	4653	4643	4639
15°	4580	4549	4513
20°	4508	4408	4346
25°	4387	4263	4143
30°	4266	4077	3924
35°	4125	3887	3702
40°	3977	3708	3492
45°	3828	3522	3286
50°	3693	3341	3086
55°	3529	3152	2900
60°	3341	2971	2710
65°	3140	2770	2522
70°	2918	2546	2281
75°	2651	2302	2066
80°	2377	2016	1876
85°	1819	1659	1359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3828 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.5	4.0
10°-20°	71.0	11.2
20°-30°	102.1	16.2
30°-40°	114.8	18.2
40°-50°	110.9	17.6
50°-60°	93.7	14.8
60°-70°	67.3	10.6
70°-80°	36.8	5.8
80°-90°	9.8	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°	198.7	31.4
0°-40°	313.5	49.6
0°-60°	518.1	82.0
0°-90°	632.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	632.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	271	271	271	271	271	
5°	268	271	268	268	270	25
15°	254	256	252	250	250	72
25°	228	228	222	217	216	105
35°	194	192	183	176	174	121
45°	155	152	143	136	133	120
55°	116	112	104	97	96	104
65°	76	73	67	62	61	76
75°	39	37	34	32	31	42
85°	9	8	8	7	7	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	271.0	271.0	271.0	271.0	271.0
2.5°	269.2	272.4	270.0	270.4	270.8
5°	267.7	271.3	268.1	268.1	270.0
7.5°	265.8	269.2	265.2	264.4	266.1
10°	263.1	266.6	262.5	261.1	262.3
12.5°	259.6	262.9	259.0	256.8	257.8
15°	254.0	256.2	252.3	249.9	250.3
17.5°	247.9	249.2	243.6	241.5	241.1
20°	243.2	244.4	237.8	234.9	234.5
22.5°	237.2	238.3	231.3	227.8	227.2
25°	228.3	228.5	221.8	216.8	215.6
27.5°	218.9	218.2	210.9	204.9	203.4
30°	212.1	211.3	202.7	196.5	195.1
32.5°	204.8	203.3	194.8	188.0	186.6
35°	194.0	191.8	182.8	175.7	174.1
37.5°	182.6	180.1	171.2	163.5	161.7
40°	174.9	172.1	163.1	155.4	153.6
42.5°	167.3	164.1	155.0	147.2	145.3
45°	155.4	152.2	143.0	135.5	133.4
47.5°	144.1	140.0	131.1	123.6	121.6
50°	136.3	131.9	123.3	116.0	113.9
52.5°	128.4	123.7	115.5	108.5	106.5
55°	116.2	111.9	103.8	97.3	95.5
57.5°	104.2	100.1	92.6	86.4	84.6
60°	95.9	92.4	85.3	79.4	77.8
62.5°	87.9	84.8	78.0	72.6	71.0
65°	76.2	73.3	67.2	62.4	61.2
67.5°	64.7	61.9	57.0	52.7	51.3
70°	57.3	54.4	50.0	46.0	44.8
72.5°	50.1	47.1	43.5	39.9	39.0
75°	39.4	37.0	34.2	31.5	30.7
77.5°	30.0	27.6	25.6	23.7	23.5
80°	23.7	21.6	20.1	18.9	18.7
82.5°	17.7	16.1	15.1	14.2	14.2
85°	9.1	8.5	8.3	7.3	6.8
87.5°	2.7	2.7	2.3	2.0	2.0
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	16.24	17.82	16.61	18.14	18.45	15.14	16.72	15.51	17.03	17.35
	3H	17.94	19.36	18.31	19.69	20.05	16.72	18.14	17.10	18.47	18.83
	4H	18.60	19.93	18.99	20.28	20.66	17.32	18.66	17.72	19.01	19.39
	6H	19.03	20.27	19.44	20.64	21.03	17.73	18.97	18.14	19.33	19.72
	8H	19.20	20.38	19.63	20.77	21.17	17.89	19.07	18.31	19.46	19.86
	12H	19.30	20.43	19.73	20.81	21.24	17.97	19.10	18.40	19.49	19.92
4H	2H	16.73	18.07	17.13	18.42	18.80	15.86	17.19	16.25	17.54	17.92
	3H	18.66	19.78	19.07	20.18	20.58	17.65	18.77	18.06	19.17	19.57
	4H	19.43	20.44	19.87	20.86	21.29	18.35	19.36	18.78	19.77	20.21
	6H	19.99	20.87	20.45	21.31	21.77	18.87	19.75	19.32	20.19	20.64
	8H	20.21	21.04	20.67	21.48	21.94	19.07	19.89	19.53	20.34	20.80
	12H	20.35	21.09	20.83	21.57	22.04	19.19	19.93	19.67	20.41	20.88
8H	4H	19.64	20.47	20.11	20.91	21.38	18.68	19.50	19.14	19.94	20.41
	6H	20.31	21.00	20.81	21.48	21.96	19.31	19.99	19.81	20.48	20.96
	8H	20.61	21.22	21.12	21.73	22.22	19.59	20.20	20.10	20.71	21.20
	12H	20.82	21.36	21.32	21.85	22.41	19.77	20.31	20.28	20.81	21.37
12H	4H	19.66	20.39	20.14	20.87	21.34	18.72	19.45	19.20	19.93	20.40
	6H	20.35	20.96	20.86	21.47	21.95	19.38	19.99	19.89	20.50	20.99
	8H	20.70	21.24	21.20	21.73	22.29	19.72	20.26	20.23	20.75	21.31