

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: P824237

Luminaire Tested: CB2-0U-XD-835-B06-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824237
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-835-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, 3500K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 689.5 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.23
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

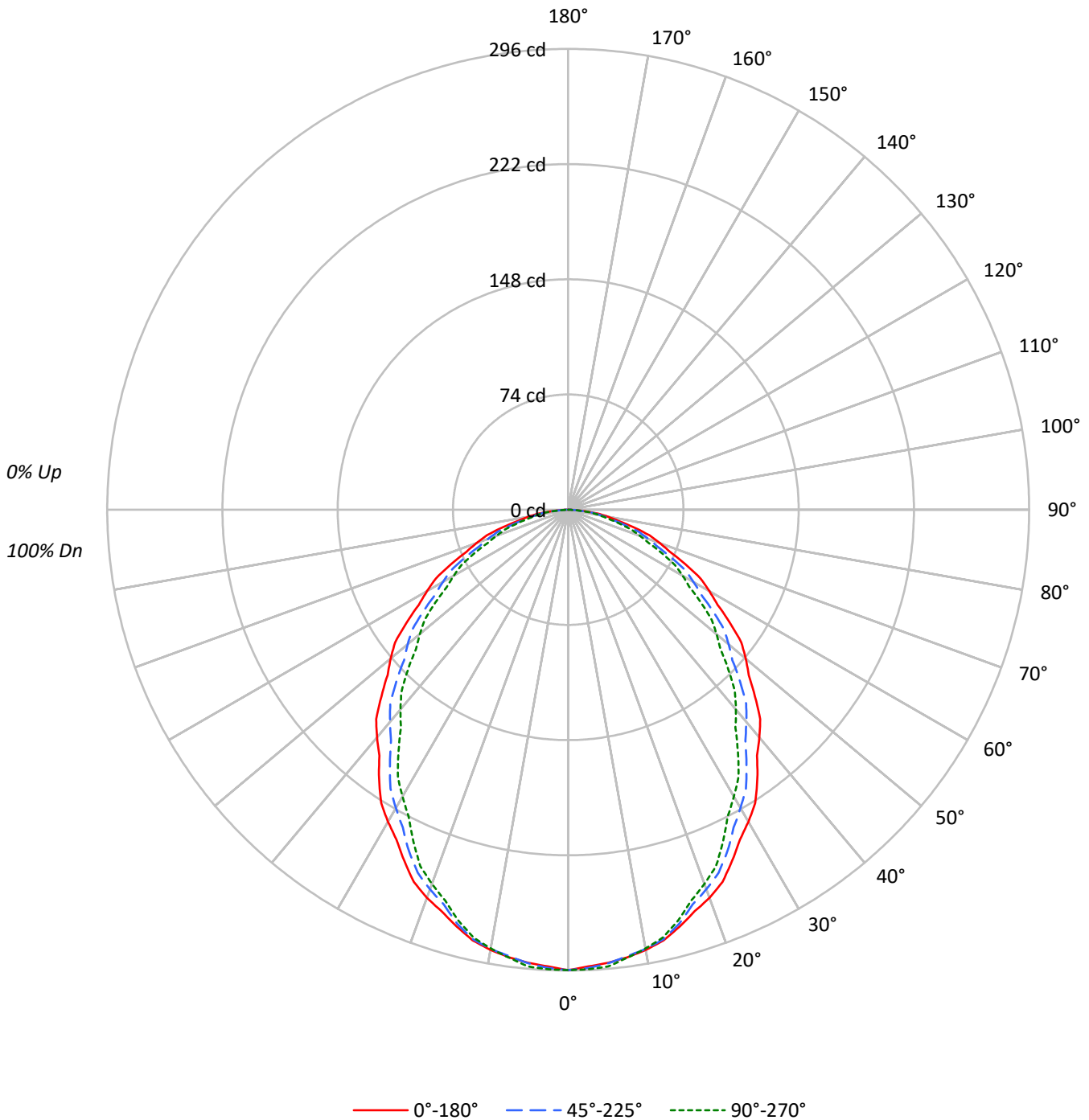
Input Watts (W): 6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	91	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°	5150	5150	5150
5°	5107	5114	5149
10°	5078	5065	5062
15°	4997	4964	4923
20°	4917	4810	4741
25°	4785	4651	4520
30°	4654	4449	4280
35°	4501	4242	4038
40°	4340	4045	3808
45°	4178	3843	3586
50°	4029	3644	3368
55°	3850	3437	3161
60°	3644	3243	2957
65°	3425	3025	2753
70°	3183	2780	2490
75°	2894	2517	2254
80°	2588	2207	2046
85°	1998	1819	1499

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4178 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.8	4.0
10°-20°	77.5	11.2
20°-30°	111.5	16.2
30°-40°	125.3	18.2
40°-50°	121.0	17.5
50°-60°	102.2	14.8
60°-70°	73.4	10.7
70°-80°	40.1	5.8
80°-90°	10.7	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°	216.8	31.4
0°-40°	342.0	49.6
0°-60°	565.3	82.0
0°-90°	689.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	689.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	296	296	296	296	296	
5°	292	296	292	293	294	28
15°	277	280	275	273	273	78
25°	249	249	242	237	235	115
35°	212	209	200	192	190	132
45°	170	166	156	148	146	131
55°	127	122	113	106	104	113
65°	83	80	73	68	67	82
75°	43	40	37	34	34	46
85°	10	9	9	8	8	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	295.7	295.7	295.7	295.7	295.7
2.5°	293.7	297.2	294.6	295.0	295.5
5°	292.1	296.0	292.5	292.6	294.5
7.5°	290.0	293.7	289.3	288.5	290.3
10°	287.1	290.8	286.4	284.8	286.2
12.5°	283.3	286.9	282.6	280.1	281.3
15°	277.1	279.5	275.3	272.6	273.0
17.5°	270.4	271.9	265.8	263.5	263.1
20°	265.3	266.7	259.5	256.3	255.8
22.5°	258.8	260.0	252.4	248.5	247.9
25°	249.0	249.3	242.0	236.6	235.2
27.5°	238.8	238.1	230.1	223.6	221.9
30°	231.4	230.5	221.2	214.4	212.8
32.5°	223.4	221.8	212.5	205.1	203.6
35°	211.7	209.2	199.5	191.7	189.9
37.5°	199.2	196.4	186.8	178.4	176.4
40°	190.9	187.8	177.9	169.5	167.5
42.5°	182.5	179.1	169.1	160.6	158.5
45°	169.6	166.0	156.0	147.8	145.6
47.5°	157.3	152.7	143.0	134.8	132.6
50°	148.7	143.9	134.5	126.5	124.3
52.5°	140.1	135.0	126.0	118.4	116.1
55°	126.8	122.1	113.2	106.1	104.1
57.5°	113.7	109.2	101.0	94.3	92.3
60°	104.6	100.8	93.1	86.7	84.9
62.5°	95.9	92.5	85.1	79.2	77.5
65°	83.1	80.0	73.4	68.1	66.8
67.5°	70.6	67.5	62.2	57.5	56.0
70°	62.5	59.4	54.6	50.2	48.9
72.5°	54.7	51.4	47.5	43.5	42.6
75°	43.0	40.4	37.4	34.4	33.5
77.5°	32.7	30.1	27.9	25.8	25.6
80°	25.8	23.6	22.0	20.6	20.4
82.5°	19.3	17.6	16.5	15.5	15.5
85°	10.0	9.3	9.1	7.9	7.5
87.5°	2.9	2.9	2.5	2.2	2.2
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	16.55	18.13	16.91	18.44	18.75	15.45	17.03	15.81	17.34	17.65
	3H	18.24	19.66	18.62	19.99	20.35	17.02	18.45	17.40	18.77	19.13
	4H	18.90	20.24	19.30	20.58	20.96	17.63	18.97	18.03	19.31	19.69
	6H	19.34	20.57	19.75	20.94	21.33	18.03	19.27	18.44	19.64	20.03
	8H	19.50	20.68	19.93	21.07	21.47	18.19	19.37	18.62	19.76	20.16
	12H	19.60	20.73	20.03	21.11	21.54	18.28	19.41	18.71	19.79	20.22
4H	2H	17.04	18.37	17.43	18.72	19.10	16.16	17.50	16.56	17.85	18.22
	3H	18.96	20.08	19.37	20.48	20.88	17.96	19.07	18.37	19.47	19.87
	4H	19.74	20.75	20.17	21.16	21.60	18.66	19.67	19.09	20.08	20.52
	6H	20.30	21.18	20.75	21.62	22.07	19.17	20.05	19.63	20.49	20.95
	8H	20.52	21.34	20.98	21.78	22.25	19.38	20.20	19.84	20.64	21.11
	12H	20.66	21.39	21.14	21.87	22.34	19.50	20.23	19.98	20.71	21.18
8H	4H	19.95	20.77	20.41	21.21	21.68	18.98	19.81	19.45	20.25	20.72
	6H	20.62	21.30	21.11	21.79	22.27	19.62	20.30	20.11	20.79	21.26
	8H	20.91	21.53	21.43	22.03	22.52	19.90	20.51	20.41	21.02	21.50
	12H	21.12	21.66	21.63	22.15	22.72	20.08	20.62	20.59	21.11	21.67
12H	4H	19.96	20.70	20.44	21.18	21.65	19.02	19.76	19.50	20.24	20.71
	6H	20.65	21.26	21.16	21.77	22.26	19.68	20.30	20.19	20.80	21.29
	8H	21.00	21.54	21.51	22.03	22.60	20.02	20.56	20.53	21.05	21.62