

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: P824238

Luminaire Tested: CB2-0U-XD-835-B10-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824238
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-B10-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE
2-INCH APERTURE
DOWNLIGHT UNDER 10W BATTERY POWER
DIRECT ONLY
Light Source: 80 CRI, 3500K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1128.8 lumens
Efficiency: N/A
Efficacy: 112.9 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

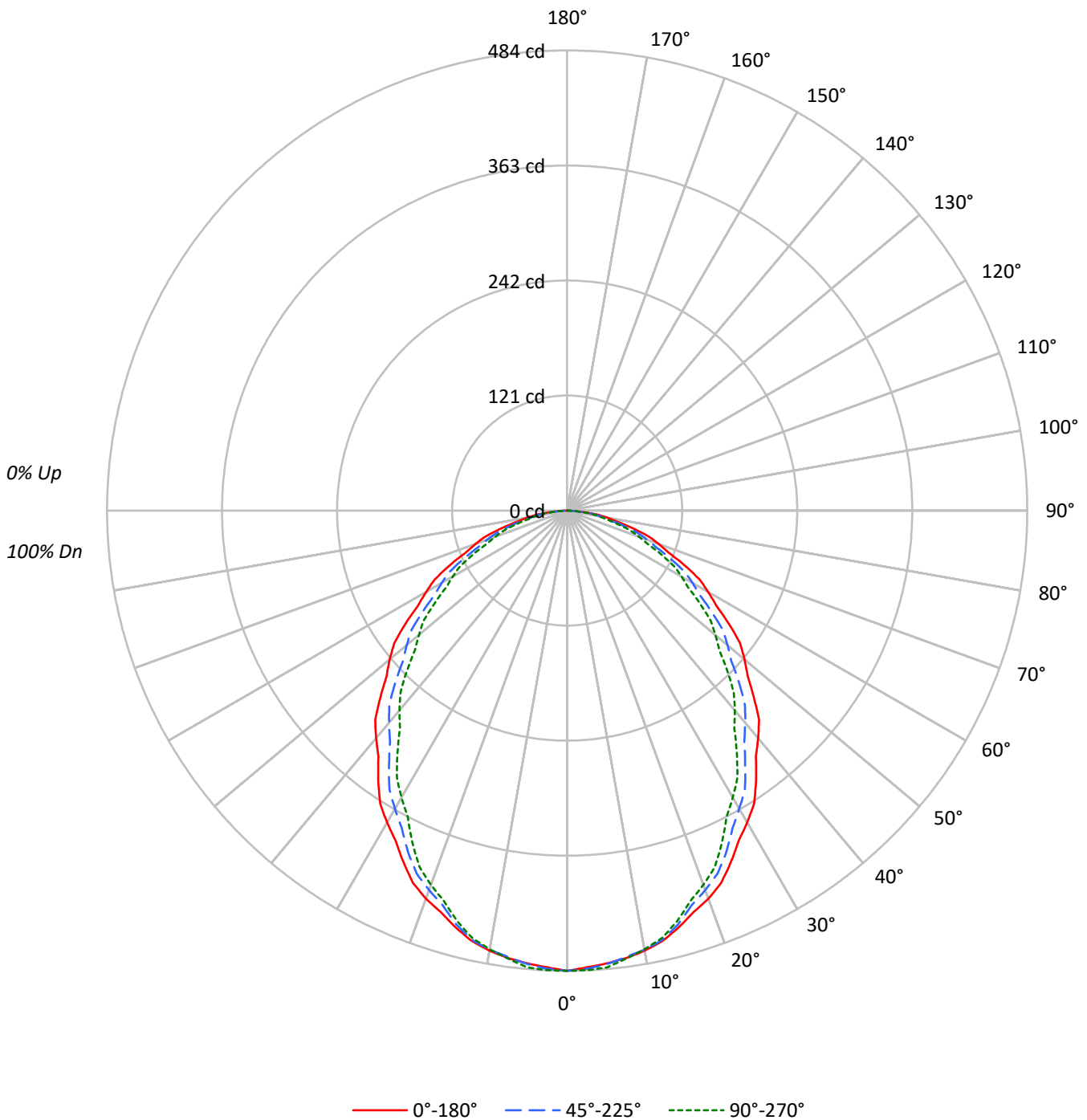
Input Watts (W): 10
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	8432	8432	8432
5°	8359	8373	8431
10°	8312	8293	8286
15°	8181	8127	8060
20°	8052	7874	7763
25°	7835	7614	7401
30°	7618	7282	7007
35°	7368	6942	6613
40°	7103	6623	6237
45°	6838	6291	5870
50°	6598	5967	5514
55°	6304	5627	5177
60°	5964	5305	4842
65°	5605	4950	4505
70°	5210	4548	4079
75°	4738	4118	3695
80°	4243	3611	3350
85°	3257	2958	2438

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6838 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	4.0
10°-20°	126.9	11.2
20°-30°	182.4	16.2
30°-40°	205.1	18.2
40°-50°	198.1	17.5
50°-60°	167.4	14.8
60°-70°	120.2	10.7
70°-80°	65.7	5.8
80°-90°	17.5	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°	354.9	31.4
0°-40°	559.9	49.6
0°-60°	925.4	82.0
0°-90°	1128.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1128.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	484	484	484	484	484	
5°	478	485	479	479	482	45
15°	454	458	451	446	447	128
25°	408	408	396	387	385	188
35°	346	343	326	314	311	216
45°	278	272	255	242	238	214
55°	208	200	185	174	170	186
65°	136	131	120	112	109	135
75°	70	66	61	56	55	75
85°	16	15	15	13	12	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	484.1	484.1	484.1	484.1	484.1
2.5°	480.8	486.6	482.3	482.9	483.8
5°	478.1	484.6	478.9	478.9	482.2
7.5°	474.7	480.9	473.6	472.3	475.3
10°	470.0	476.1	468.9	466.3	468.5
12.5°	463.7	469.6	462.6	458.6	460.5
15°	453.7	457.6	450.7	446.3	447.0
17.5°	442.7	445.2	435.1	431.4	430.7
20°	434.4	436.6	424.8	419.5	418.8
22.5°	423.7	425.6	413.2	406.8	405.8
25°	407.7	408.1	396.2	387.3	385.1
27.5°	391.0	389.8	376.6	366.1	363.2
30°	378.8	377.3	362.1	350.9	348.4
32.5°	365.7	363.1	347.9	335.8	333.3
35°	346.5	342.6	326.5	313.9	311.0
37.5°	326.1	321.6	305.9	292.1	288.8
40°	312.4	307.4	291.3	277.5	274.3
42.5°	298.8	293.2	276.8	263.0	259.4
45°	277.6	271.8	255.4	241.9	238.3
47.5°	257.4	250.1	234.1	220.7	217.1
50°	243.5	235.5	220.2	207.1	203.5
52.5°	229.3	221.0	206.2	193.8	190.1
55°	207.6	199.9	185.3	173.8	170.5
57.5°	186.1	178.7	165.4	154.3	151.1
60°	171.2	165.1	152.3	141.9	139.0
62.5°	157.0	151.4	139.3	129.7	126.8
65°	136.0	131.0	120.1	111.5	109.3
67.5°	115.6	110.6	101.8	94.1	91.6
70°	102.3	97.2	89.3	82.2	80.1
72.5°	89.5	84.2	77.8	71.3	69.7
75°	70.4	66.1	61.2	56.3	54.9
77.5°	53.5	49.3	45.7	42.3	42.0
80°	42.3	38.6	36.0	33.7	33.4
82.5°	31.6	28.8	27.1	25.4	25.4
85°	16.3	15.2	14.8	13.0	12.2
87.5°	4.7	4.7	4.2	3.6	3.6
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	18.26	19.84	18.62	20.15	20.46	17.16	18.74	17.52	19.05	19.36
	3H	19.95	21.37	20.33	21.70	22.06	18.73	20.16	19.11	20.48	20.84
	4H	20.61	21.95	21.01	22.30	22.67	19.34	20.68	19.74	21.02	21.40
	6H	21.05	22.29	21.46	22.65	23.04	19.75	20.98	20.16	21.35	21.74
	8H	21.22	22.40	21.64	22.79	23.19	19.91	21.09	20.33	21.48	21.88
	12H	21.31	22.44	21.74	22.82	23.25	19.99	21.12	20.42	21.50	21.93
4H	2H	18.75	20.08	19.15	20.43	20.81	17.87	19.21	18.27	19.56	19.93
	3H	20.68	21.79	21.09	22.19	22.59	19.67	20.78	20.08	21.18	21.58
	4H	21.45	22.46	21.88	22.87	23.31	20.37	21.38	20.80	21.79	22.23
	6H	22.01	22.89	22.46	23.33	23.79	20.88	21.76	21.34	22.20	22.66
	8H	22.23	23.05	22.69	23.49	23.96	21.09	21.91	21.55	22.35	22.82
	12H	22.37	23.10	22.85	23.58	24.05	21.21	21.95	21.69	22.42	22.89
8H	4H	21.66	22.48	22.12	22.93	23.39	20.70	21.52	21.16	21.96	22.43
	6H	22.33	23.01	22.82	23.50	23.98	21.33	22.01	21.82	22.50	22.98
	8H	22.63	23.24	23.14	23.75	24.23	21.61	22.22	22.12	22.73	23.22
	12H	22.83	23.37	23.34	23.86	24.43	21.79	22.33	22.30	22.82	23.39
12H	4H	21.67	22.41	22.15	22.89	23.36	20.73	21.47	21.21	21.95	22.42
	6H	22.36	22.98	22.87	23.48	23.97	21.40	22.01	21.91	22.52	23.00
	8H	22.71	23.25	23.22	23.75	24.31	21.74	22.28	22.24	22.77	23.33