

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: P824334

Luminaire Tested: CB3-0U-XD-835-B10-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824334
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-835-B10-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE
3-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: 1239.8 lumens
Efficiency: N/A
Efficacy: 124.0 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

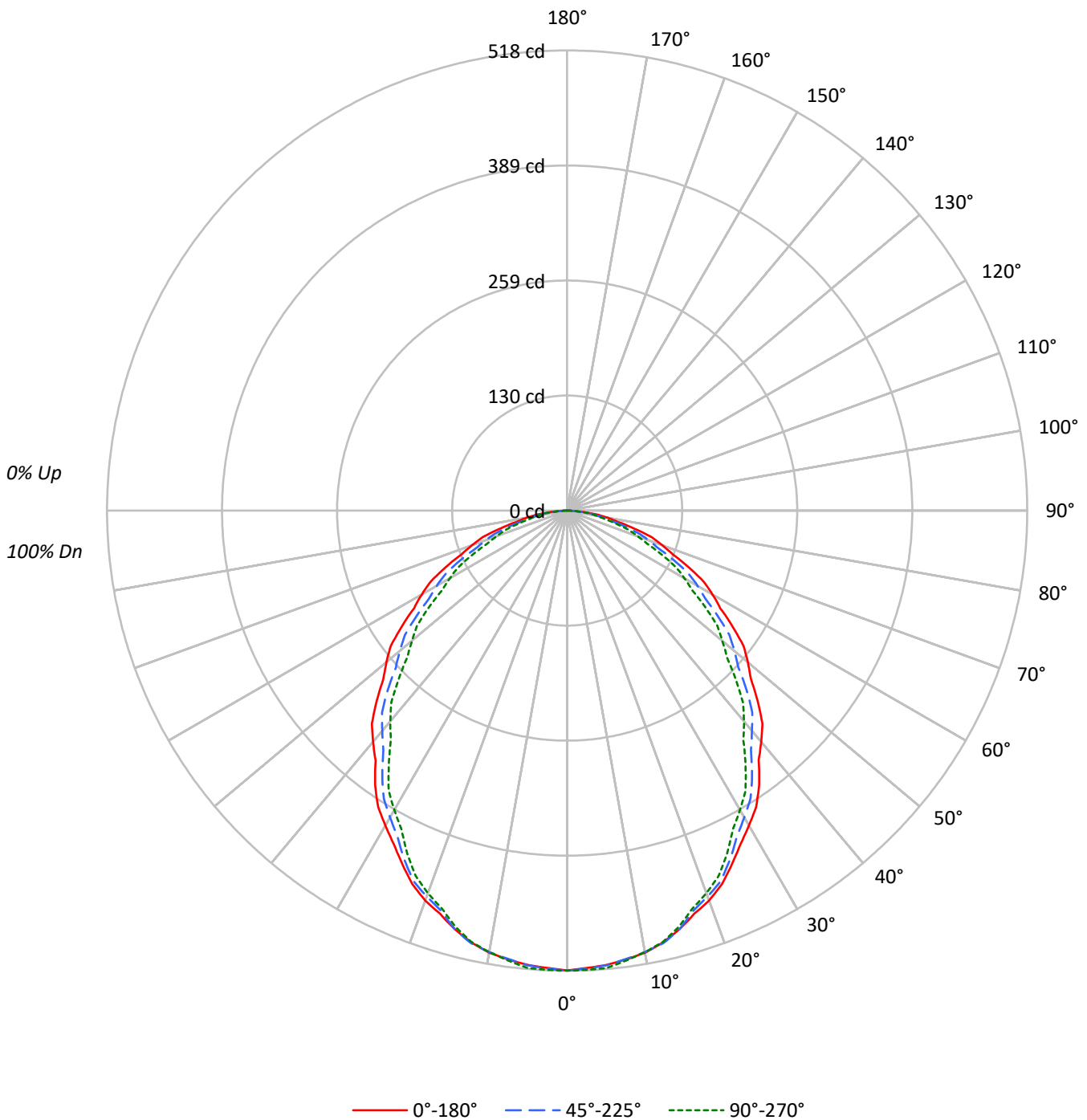
Input Watts (W): 10
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	5859	5859	5859
5°	5831	5836	5869
10°	5805	5797	5797
15°	5717	5717	5682
20°	5624	5566	5518
25°	5482	5413	5317
30°	5347	5209	5084
35°	5207	5014	4836
40°	5019	4781	4574
45°	4850	4573	4290
50°	4673	4325	4013
55°	4484	4085	3750
60°	4277	3836	3453
65°	4037	3555	3140
70°	3758	3225	2799
75°	3410	2828	2492
80°	2971	2372	2202
85°	2298	1999	1999

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4850 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	3.9
10°-20°	137.3	11.1
20°-30°	199.4	16.1
30°-40°	226.7	18.3
40°-50°	220.1	17.8
50°-60°	185.8	15.0
60°-70°	132.2	10.7
70°-80°	70.6	5.7
80°-90°	18.7	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°	385.6	31.1
0°-40°	612.3	49.4
0°-60°	1018.2	82.1
0°-90°	1239.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1239.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	518	518	518	518	518	
5°	513	520	514	513	517	49
15°	488	492	488	485	485	137
25°	439	441	434	428	426	202
35°	377	373	363	352	350	235
45°	303	298	286	272	268	234
55°	227	221	207	194	190	203
65°	151	145	133	121	117	149
75°	78	74	65	58	57	83
85°	18	16	15	15	15	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	517.8	517.8	517.8	517.8	517.8
2.5°	515.2	520.4	515.8	516.4	517.5
5°	513.4	519.9	513.8	513.1	516.7
7.5°	509.5	515.4	509.0	507.5	510.8
10°	505.3	511.8	504.6	502.8	504.6
12.5°	498.0	504.7	499.0	496.0	497.5
15°	488.1	492.4	488.1	485.1	485.1
17.5°	475.9	480.4	472.3	470.2	469.4
20°	467.1	471.0	462.3	459.3	458.3
22.5°	455.3	459.0	451.7	446.7	445.3
25°	439.1	440.6	433.6	427.7	425.9
27.5°	422.9	423.2	413.7	406.5	404.1
30°	409.3	409.7	398.7	390.9	389.1
32.5°	395.8	394.7	384.3	375.0	373.8
35°	377.0	373.4	363.0	352.3	350.1
37.5°	354.3	352.1	339.8	329.1	325.9
40°	339.8	336.2	323.7	312.9	309.7
42.5°	325.4	321.2	308.4	296.4	292.9
45°	303.1	298.4	285.8	272.1	268.1
47.5°	280.5	275.4	261.6	248.3	243.9
50°	265.5	260.1	245.7	232.7	228.0
52.5°	250.2	244.6	230.1	216.8	213.0
55°	227.3	221.2	207.1	193.7	190.1
57.5°	204.3	198.3	184.3	171.7	167.3
60°	189.0	183.3	169.5	156.9	152.6
62.5°	173.4	168.0	154.5	142.2	138.2
65°	150.8	145.4	132.8	120.9	117.3
67.5°	128.4	123.8	111.3	100.4	97.5
70°	113.6	109.3	97.5	87.5	84.6
72.5°	99.5	94.9	83.6	75.1	73.1
75°	78.0	73.7	64.7	58.1	57.0
77.5°	58.3	54.7	47.0	43.2	42.7
80°	45.6	42.4	36.4	33.8	33.8
82.5°	33.8	31.2	27.3	26.2	26.2
85°	17.7	16.2	15.4	15.4	15.4
87.5°	5.3	5.3	5.0	4.7	4.7
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	17.14	18.72	17.50	19.03	19.35	16.06	17.64	16.43	17.96	18.27
	3H	18.86	20.28	19.23	20.61	20.97	17.53	18.95	17.90	19.28	19.64
	4H	19.52	20.86	19.92	21.21	21.58	18.07	19.41	18.47	19.76	20.14
	6H	19.94	21.18	20.35	21.54	21.93	18.43	19.66	18.84	20.03	20.42
	8H	20.09	21.28	20.52	21.67	22.07	18.57	19.75	18.99	20.14	20.54
	12H	20.18	21.32	20.61	21.70	22.13	18.67	19.80	19.10	20.18	20.61
4H	2H	17.63	18.97	18.03	19.32	19.69	16.77	18.11	17.17	18.46	18.83
	3H	19.58	20.70	19.99	21.10	21.50	18.45	19.57	18.86	19.97	20.37
	4H	20.36	21.36	20.79	21.78	22.22	19.09	20.09	19.52	20.51	20.94
	6H	20.90	21.78	21.35	22.22	22.68	19.54	20.41	19.99	20.86	21.31
	8H	21.10	21.93	21.57	22.37	22.84	19.72	20.54	20.18	20.99	21.45
	12H	21.24	21.97	21.72	22.45	22.92	19.86	20.60	20.34	21.07	21.54
8H	4H	20.54	21.36	21.00	21.80	22.27	19.40	20.22	19.86	20.67	21.13
	6H	21.19	21.87	21.68	22.36	22.83	19.96	20.64	20.45	21.13	21.60
	8H	21.47	22.08	21.98	22.59	23.07	20.21	20.83	20.73	21.33	21.82
	12H	21.66	22.21	22.17	22.70	23.26	20.42	20.96	20.93	21.45	22.02
12H	4H	20.55	21.28	21.03	21.76	22.23	19.44	20.17	19.92	20.65	21.12
	6H	21.21	21.82	21.72	22.33	22.82	20.02	20.63	20.53	21.14	21.62
	8H	21.54	22.08	22.05	22.57	23.13	20.33	20.87	20.84	21.36	21.93