

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: P824316

Luminaire Tested: CB3R-030D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824316  
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: CB3R-030D-830-1D-UNV-STD-W-4  
Description: CORELITE BRYX SLOT LED LUMINAIRE  
3-INCH APERTURE  
DOWNLIGHT 300 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 80 CRI, 3000K CCT LEDS  
Ballast/Driver: -

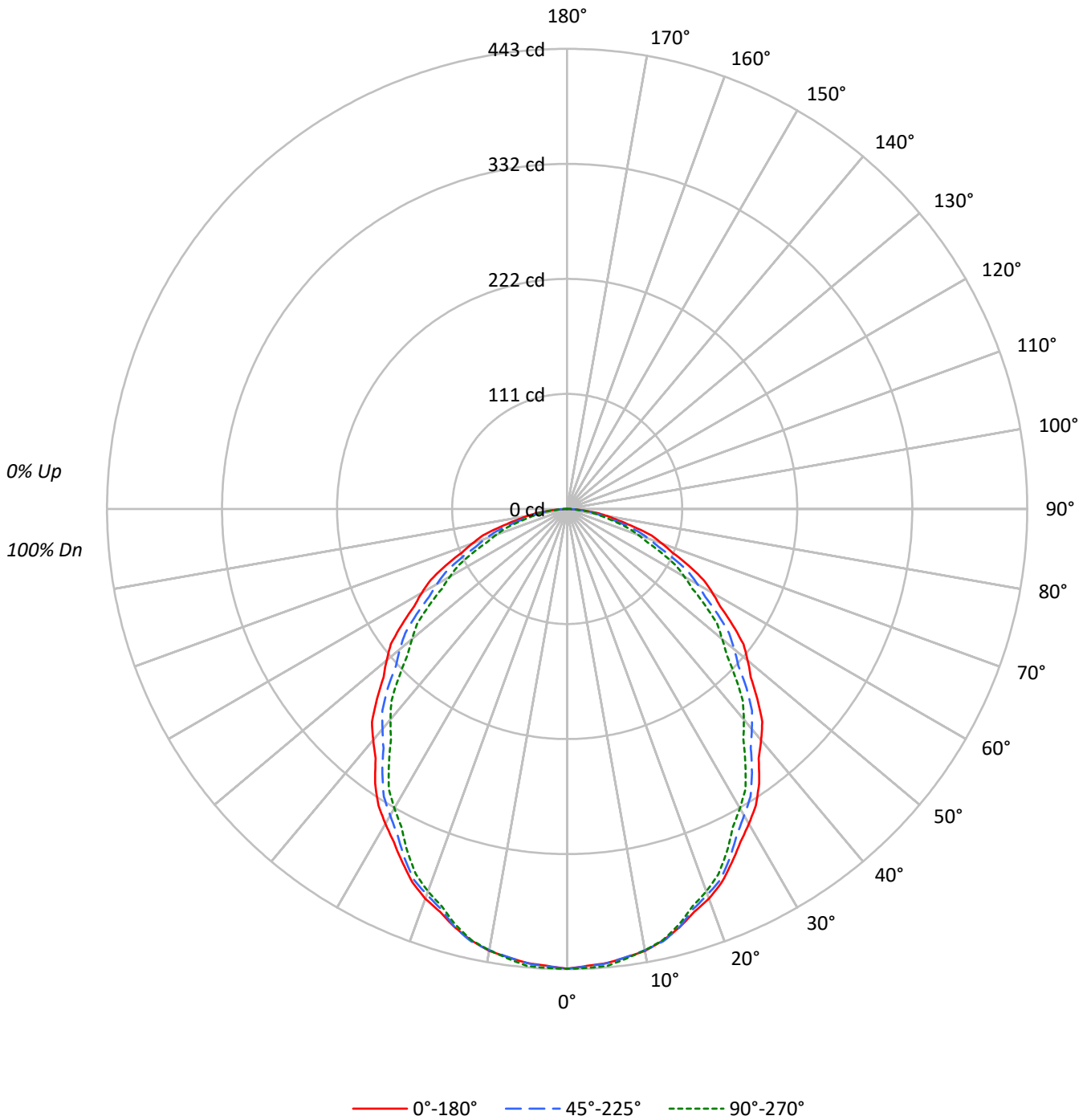
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1059.6 lumens  
Efficiency: N/A  
Efficacy: 120.4 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): 8.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	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	96	98	95	93	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	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53					53			
5	78	65	56	50	75	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	54	48	43	53	47	43	41					41			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36					36			
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32					32			
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29					29			
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27					27			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5008	5008	5008
5°	4984	4987	5016
10°	4962	4955	4955
15°	4886	4886	4857
20°	4807	4757	4716
25°	4685	4627	4544
30°	4571	4451	4345
35°	4450	4285	4133
40°	4289	4085	3910
45°	4144	3907	3666
50°	3994	3696	3431
55°	3833	3492	3206
60°	3657	3279	2951
65°	3451	3039	2685
70°	3212	2756	2392
75°	2911	2418	2129
80°	2541	2026	1883
85°	1960	1714	1714

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4144 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.8	3.9
10°-20°	117.3	11.1
20°-30°	170.4	16.1
30°-40°	193.8	18.3
40°-50°	188.1	17.8
50°-60°	158.8	15.0
60°-70°	113.0	10.7
70°-80°	60.4	5.7
80°-90°	15.9	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°	329.5	31.1
0°-40°	523.3	49.4
0°-60°	870.2	82.1
0°-90°	1059.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1059.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	443	443	443	443	443	
5°	439	444	439	439	442	42
15°	417	421	417	415	415	117
25°	375	376	371	366	364	173
35°	322	319	310	301	299	201
45°	259	255	244	232	229	200
55°	194	189	177	166	162	174
65°	129	124	114	103	100	128
75°	67	63	55	50	49	71
85°	15	14	13	13	13	18
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	442.6	442.6	442.6	442.6	442.6
2.5°	440.3	444.7	440.8	441.3	442.3
5°	438.8	444.3	439.1	438.6	441.6
7.5°	435.4	440.5	435.0	433.8	436.5
10°	431.9	437.4	431.3	429.7	431.3
12.5°	425.6	431.4	426.5	423.9	425.2
15°	417.1	420.8	417.1	414.6	414.6
17.5°	406.7	410.6	403.7	401.9	401.2
20°	399.2	402.6	395.1	392.6	391.7
22.5°	389.1	392.3	386.1	381.8	380.6
25°	375.3	376.5	370.6	365.5	364.0
27.5°	361.4	361.7	353.6	347.4	345.4
30°	349.9	350.2	340.7	334.1	332.6
32.5°	338.3	337.4	328.4	320.5	319.5
35°	322.2	319.1	310.2	301.1	299.2
37.5°	302.8	300.9	290.4	281.3	278.5
40°	290.4	287.4	276.6	267.4	264.7
42.5°	278.1	274.6	263.5	253.3	250.3
45°	259.0	255.0	244.2	232.5	229.1
47.5°	239.8	235.4	223.6	212.2	208.5
50°	226.9	222.3	210.0	198.9	194.9
52.5°	213.9	209.0	196.6	185.3	182.1
55°	194.3	189.0	177.0	165.6	162.5
57.5°	174.6	169.5	157.5	146.7	143.0
60°	161.6	156.6	144.9	134.1	130.4
62.5°	148.2	143.6	132.1	121.6	118.1
65°	128.9	124.3	113.5	103.3	100.3
67.5°	109.7	105.8	95.1	85.8	83.4
70°	97.1	93.4	83.3	74.8	72.3
72.5°	85.1	81.1	71.5	64.2	62.5
75°	66.6	63.0	55.3	49.6	48.7
77.5°	49.8	46.8	40.2	37.0	36.5
80°	39.0	36.2	31.1	28.9	28.9
82.5°	28.9	26.6	23.3	22.4	22.4
85°	15.1	13.9	13.2	13.2	13.2
87.5°	4.5	4.5	4.3	4.0	4.0
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	16.59	18.18	16.96	18.49	18.80	15.52	17.10	15.88	17.41	17.72
	3H	18.31	19.73	18.69	20.06	20.42	16.98	18.40	17.36	18.73	19.09
	4H	18.97	20.31	19.37	20.66	21.04	17.53	18.87	17.93	19.21	19.59
	6H	19.39	20.63	19.80	21.00	21.39	17.88	19.12	18.29	19.48	19.88
	8H	19.55	20.73	19.97	21.12	21.52	18.02	19.20	18.45	19.59	19.99
	12H	19.64	20.77	20.07	21.15	21.58	18.12	19.25	18.55	19.63	20.06
4H	2H	17.08	18.42	17.48	18.77	19.15	16.22	17.56	16.62	17.91	18.29
	3H	19.03	20.15	19.44	20.55	20.95	17.91	19.02	18.32	19.42	19.82
	4H	19.81	20.82	20.24	21.23	21.67	18.54	19.55	18.97	19.96	20.40
	6H	20.35	21.23	20.81	21.67	22.13	18.99	19.87	19.45	20.31	20.77
	8H	20.56	21.38	21.02	21.82	22.29	19.18	20.00	19.64	20.44	20.91
	12H	20.69	21.43	21.17	21.90	22.37	19.31	20.05	19.80	20.53	21.00
8H	4H	19.99	20.82	20.46	21.26	21.73	18.85	19.68	19.32	20.12	20.59
	6H	20.64	21.32	21.14	21.81	22.29	19.41	20.09	19.91	20.58	21.06
	8H	20.92	21.53	21.43	22.04	22.53	19.67	20.28	20.18	20.79	21.28
	12H	21.12	21.66	21.63	22.15	22.71	19.88	20.42	20.39	20.91	21.47
12H	4H	20.00	20.74	20.48	21.21	21.68	18.89	19.63	19.37	20.10	20.57
	6H	20.66	21.27	21.17	21.78	22.27	19.47	20.09	19.98	20.59	21.08
	8H	20.99	21.54	21.50	22.03	22.59	19.79	20.33	20.30	20.82	21.38