

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: P824319

Luminaire Tested: CB3R-055D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824319  
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-055D-830-1D-UNV-STD-W-4  
Description: CORELITE BRYX SLOT LED LUMINAIRE  
3-INCH APERTURE  
DOWNLIGHT 550 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 80 CRI, 3000K CCT LEDS  
Ballast/Driver: -

**Summary**

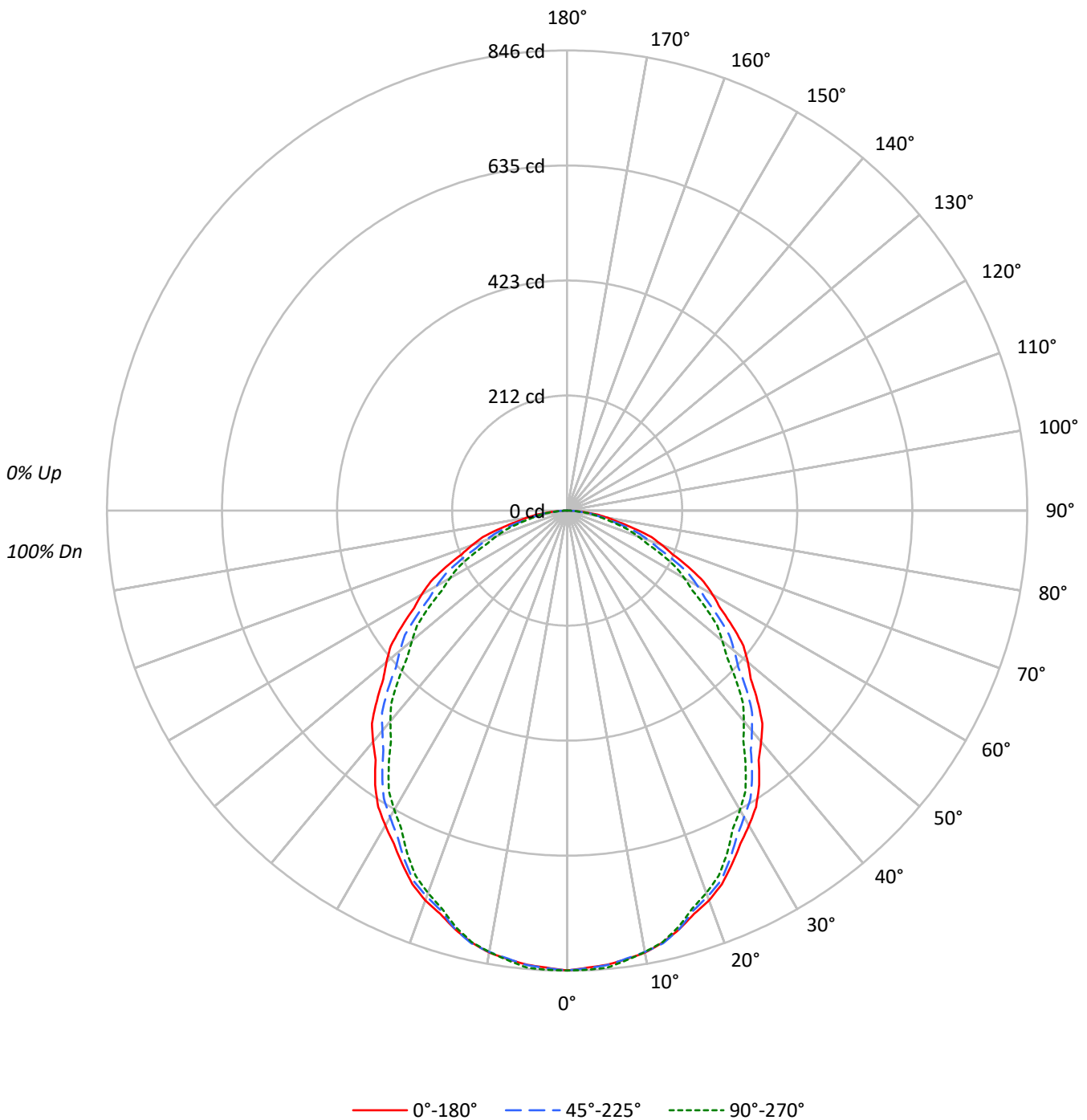
Lumens per Lamp: N/A  
Luminaire Lumens: 2024.2 lumens  
Efficiency: N/A  
Efficacy: 120.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26  
Luminous Opening: Rectangular (W 0.24' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.8  
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	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°	9566	9566	9566
5°	9521	9528	9583
10°	9480	9466	9466
15°	9333	9333	9277
20°	9182	9088	9009
25°	8951	8839	8682
30°	8731	8504	8300
35°	8502	8187	7897
40°	8194	7805	7468
45°	7917	7466	7005
50°	7632	7060	6553
55°	7320	6669	6125
60°	6986	6264	5639
65°	6591	5804	5130
70°	6140	5263	4569
75°	5565	4621	4070
80°	4854	3870	3597
85°	3739	3271	3271

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7917 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.8	3.9
10°-20°	224.1	11.1
20°-30°	325.6	16.1
30°-40°	370.2	18.3
40°-50°	359.4	17.8
50°-60°	303.4	15.0
60°-70°	215.9	10.7
70°-80°	115.4	5.7
80°-90°	30.5	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°	629.5	31.1
0°-40°	999.7	49.4
0°-60°	1662.5	82.1
0°-90°	2024.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2024.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	846	846	846	846	846	
5°	838	849	839	838	844	80
15°	797	804	797	792	792	224
25°	717	719	708	698	695	330
35°	616	610	593	575	572	384
45°	495	487	467	444	438	382
55°	371	361	338	316	310	332
65°	246	237	217	197	192	244
75°	127	120	106	95	93	136
85°	29	26	25	25	25	35
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	845.5	845.5	845.5	845.5	845.5
2.5°	841.2	849.6	842.1	843.1	845.0
5°	838.3	848.8	838.9	837.8	843.7
7.5°	831.8	841.4	831.1	828.7	834.0
10°	825.1	835.6	823.9	820.9	823.9
12.5°	813.1	824.1	814.7	809.9	812.3
15°	796.8	803.9	796.8	792.0	792.0
17.5°	777.0	784.4	771.1	767.8	766.5
20°	762.6	769.1	754.8	750.0	748.2
22.5°	743.4	749.4	737.5	729.3	727.1
25°	717.0	719.3	708.0	698.3	695.4
27.5°	690.4	691.0	675.4	663.7	659.8
30°	668.3	668.9	650.9	638.3	635.3
32.5°	646.2	644.5	627.4	612.3	610.3
35°	615.5	609.6	592.7	575.2	571.7
37.5°	578.4	574.9	554.8	537.3	532.0
40°	554.8	549.0	528.4	510.9	505.6
42.5°	531.3	524.5	503.4	484.0	478.2
45°	494.8	487.2	466.6	444.2	437.8
47.5°	458.1	449.7	427.1	405.4	398.2
50°	433.6	424.7	401.1	379.9	372.3
52.5°	408.6	399.3	375.7	354.0	347.8
55°	371.1	361.1	338.1	316.3	310.5
57.5°	333.6	323.8	300.8	280.3	273.2
60°	308.7	299.3	276.8	256.2	249.2
62.5°	283.2	274.3	252.3	232.2	225.7
65°	246.2	237.4	216.8	197.4	191.6
67.5°	209.6	202.1	181.7	163.9	159.2
70°	185.6	178.5	159.1	142.8	138.1
72.5°	162.5	155.0	136.6	122.7	119.4
75°	127.3	120.3	105.7	94.8	93.1
77.5°	95.1	89.4	76.7	70.6	69.7
80°	74.5	69.2	59.4	55.2	55.2
82.5°	55.2	50.9	44.6	42.8	42.8
85°	28.8	26.5	25.2	25.2	25.2
87.5°	8.6	8.6	8.2	7.7	7.7
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	18.84	20.42	19.21	20.74	21.05	17.77	19.35	18.13	19.66	19.97
	3H	20.56	21.98	20.94	22.31	22.67	19.23	20.65	19.61	20.98	21.34
	4H	21.22	22.56	21.62	22.91	23.29	19.78	21.12	20.18	21.46	21.84
	6H	21.64	22.88	22.05	23.25	23.64	20.13	21.37	20.54	21.73	22.12
	8H	21.80	22.98	22.22	23.37	23.77	20.27	21.45	20.70	21.84	22.24
	12H	21.89	23.02	22.32	23.40	23.83	20.37	21.50	20.80	21.88	22.31
4H	2H	19.33	20.67	19.73	21.02	21.40	18.47	19.81	18.87	20.16	20.54
	3H	21.28	22.40	21.69	22.80	23.20	20.15	21.27	20.56	21.67	22.07
	4H	22.06	23.07	22.49	23.48	23.92	20.79	21.80	21.22	22.21	22.65
	6H	22.60	23.48	23.06	23.92	24.38	21.24	22.12	21.69	22.56	23.02
	8H	22.81	23.63	23.27	24.07	24.54	21.42	22.25	21.89	22.69	23.16
	12H	22.94	23.68	23.42	24.15	24.62	21.56	22.30	22.04	22.78	23.25
8H	4H	22.24	23.07	22.70	23.51	23.97	21.10	21.93	21.56	22.37	22.83
	6H	22.89	23.57	23.39	24.06	24.54	21.66	22.34	22.15	22.83	23.31
	8H	23.17	23.78	23.68	24.29	24.78	21.92	22.53	22.43	23.04	23.52
	12H	23.37	23.91	23.88	24.40	24.96	22.13	22.67	22.63	23.16	23.72
12H	4H	22.25	22.99	22.73	23.46	23.93	21.14	21.88	21.62	22.35	22.82
	6H	22.91	23.52	23.42	24.03	24.52	21.72	22.33	22.23	22.84	23.33
	8H	23.24	23.78	23.75	24.28	24.84	22.04	22.58	22.54	23.07	23.63