

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: P824223

Luminaire Tested: CB2R-055D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824223  
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: CB2R-055D-830-1D-UNV-STD-W-4  
Description: CORELITE BRYX SLOT LED LUMINAIRE  
2-INCH APERTURE  
DOWNLIGHT 550 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 80 CRI, 3000K CCT LEDS  
Ballast/Driver: -

**Summary**

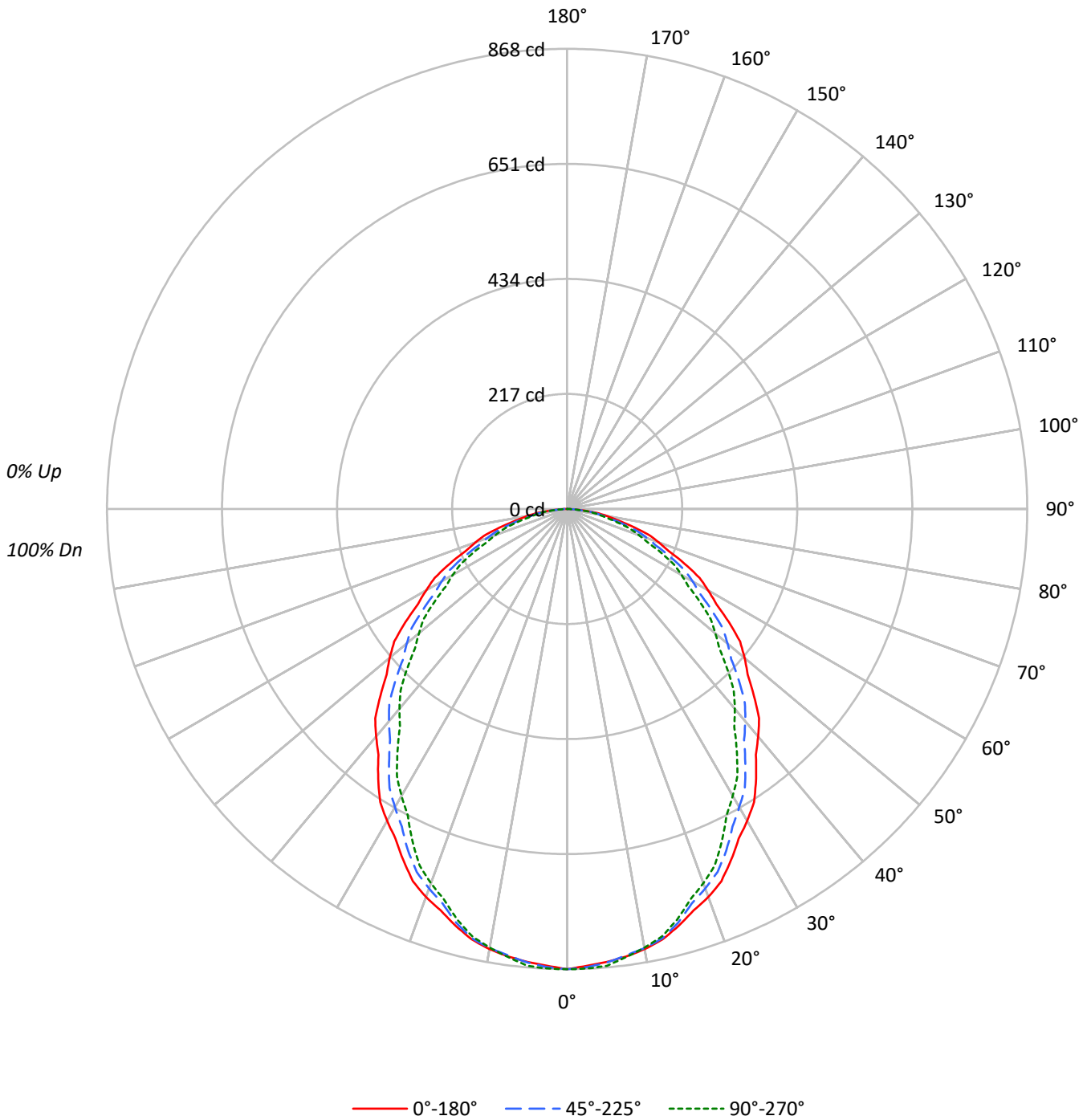
Lumens per Lamp: N/A  
Luminaire Lumens: 2024.4 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 18.6  
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				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°	15120	15120	15120
5°	14992	15015	15120
10°	14908	14872	14860
15°	14671	14575	14454
20°	14439	14120	13922
25°	14052	13656	13272
30°	13662	13061	12566
35°	13215	12451	11858
40°	12742	11880	11184
45°	12264	11281	10528
50°	11833	10698	9888
55°	11302	10094	9286
60°	10698	9517	8684
65°	10056	8877	8082
70°	9345	8158	7313
75°	8499	7382	6622
80°	7603	6470	5998
85°	5835	5316	4377

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12264 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.6	4.0
10°-20°	227.6	11.2
20°-30°	327.2	16.2
30°-40°	367.8	18.2
40°-50°	355.3	17.5
50°-60°	300.2	14.8
60°-70°	215.6	10.7
70°-80°	117.8	5.8
80°-90°	31.3	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°	636.4	31.4
0°-40°	1004.2	49.6
0°-60°	1659.6	82.0
0°-90°	2024.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2024.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	868	868	868	868	868	
5°	858	869	859	859	865	81
15°	814	821	808	800	802	229
25°	731	732	711	694	691	337
35°	622	614	586	563	558	388
45°	498	488	458	434	427	385
55°	372	359	332	312	306	333
65°	244	235	215	200	196	242
75°	126	118	110	101	98	135
85°	29	27	27	23	22	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	868.1	868.1	868.1	868.1	868.1
2.5°	862.3	872.7	864.9	866.0	867.6
5°	857.5	869.2	858.8	858.9	864.8
7.5°	851.4	862.4	849.4	847.0	852.4
10°	842.9	853.9	840.9	836.3	840.2
12.5°	831.7	842.2	829.7	822.5	825.8
15°	813.6	820.8	808.3	800.3	801.6
17.5°	793.9	798.4	780.4	773.7	772.4
20°	779.0	782.9	761.8	752.4	751.1
22.5°	759.9	763.3	741.0	729.6	727.7
25°	731.2	731.8	710.6	694.5	690.6
27.5°	701.1	699.1	675.5	656.5	651.4
30°	679.3	676.7	649.4	629.4	624.8
32.5°	655.9	651.3	623.9	602.3	597.7
35°	621.5	614.4	585.6	562.9	557.7
37.5°	584.8	576.8	548.5	523.8	517.9
40°	560.4	551.3	522.5	497.7	491.9
42.5°	535.9	525.8	496.4	471.7	465.3
45°	497.9	487.5	458.0	433.9	427.4
47.5°	461.7	448.5	419.8	395.9	389.4
50°	436.7	422.4	394.8	371.4	364.9
52.5°	411.2	396.4	369.8	347.5	341.0
55°	372.2	358.6	332.4	311.6	305.8
57.5°	333.7	320.6	296.6	276.8	271.1
60°	307.1	296.0	273.2	254.5	249.3
62.5°	281.6	271.6	249.8	232.7	227.5
65°	244.0	234.9	215.4	200.0	196.1
67.5°	207.4	198.3	182.5	168.7	164.3
70°	183.5	174.4	160.2	147.5	143.6
72.5°	160.6	151.0	139.5	127.8	125.0
75°	126.3	118.5	109.7	101.0	98.4
77.5°	96.0	88.4	82.0	75.9	75.2
80°	75.8	69.3	64.5	60.5	59.8
82.5°	56.6	51.7	48.5	45.6	45.5
85°	29.2	27.3	26.6	23.2	21.9
87.5°	8.5	8.5	7.4	6.4	6.4
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	20.29	21.87	20.65	22.18	22.49	19.19	20.77	19.55	21.08	21.40
	3H	21.98	23.40	22.36	23.73	24.09	20.76	22.19	21.14	22.51	22.88
	4H	22.64	23.98	23.04	24.33	24.70	21.37	22.71	21.77	23.05	23.43
	6H	23.08	24.32	23.49	24.68	25.07	21.77	23.01	22.19	23.38	23.77
	8H	23.25	24.43	23.67	24.82	25.22	21.93	23.12	22.36	23.50	23.90
	12H	23.34	24.47	23.77	24.85	25.28	22.02	23.15	22.45	23.53	23.96
4H	2H	20.78	22.11	21.18	22.46	22.84	19.90	21.24	20.30	21.59	21.97
	3H	22.71	23.82	23.12	24.22	24.62	21.70	22.81	22.11	23.21	23.61
	4H	23.48	24.49	23.91	24.90	25.34	22.40	23.41	22.83	23.82	24.26
	6H	24.04	24.92	24.49	25.36	25.82	22.91	23.79	23.37	24.23	24.69
	8H	24.26	25.08	24.72	25.52	25.99	23.12	23.94	23.58	24.38	24.85
	12H	24.40	25.13	24.88	25.61	26.08	23.24	23.98	23.72	24.45	24.92
8H	4H	23.69	24.51	24.15	24.96	25.42	22.73	23.55	23.19	23.99	24.46
	6H	24.36	25.04	24.85	25.53	26.01	23.36	24.04	23.85	24.53	25.01
	8H	24.66	25.27	25.17	25.78	26.26	23.64	24.25	24.15	24.76	25.25
	12H	24.86	25.40	25.37	25.89	26.46	23.82	24.36	24.33	24.85	25.42
12H	4H	23.70	24.44	24.18	24.92	25.39	22.76	23.50	23.24	23.98	24.45
	6H	24.39	25.01	24.90	25.51	26.00	23.43	24.04	23.94	24.55	25.03
	8H	24.74	25.28	25.25	25.78	26.34	23.77	24.31	24.27	24.80	25.36