

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: P824225

Luminaire Tested: CB2R-055D-840-1D-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824225  
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-840-1D-UNV-STD-W-4  
Description: CORELITE BRYX SLOT LED LUMINAIRE  
2-INCH APERTURE  
DOWNLIGHT 550 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 80 CRI, 4000K CCT LEDS  
Ballast/Driver: -

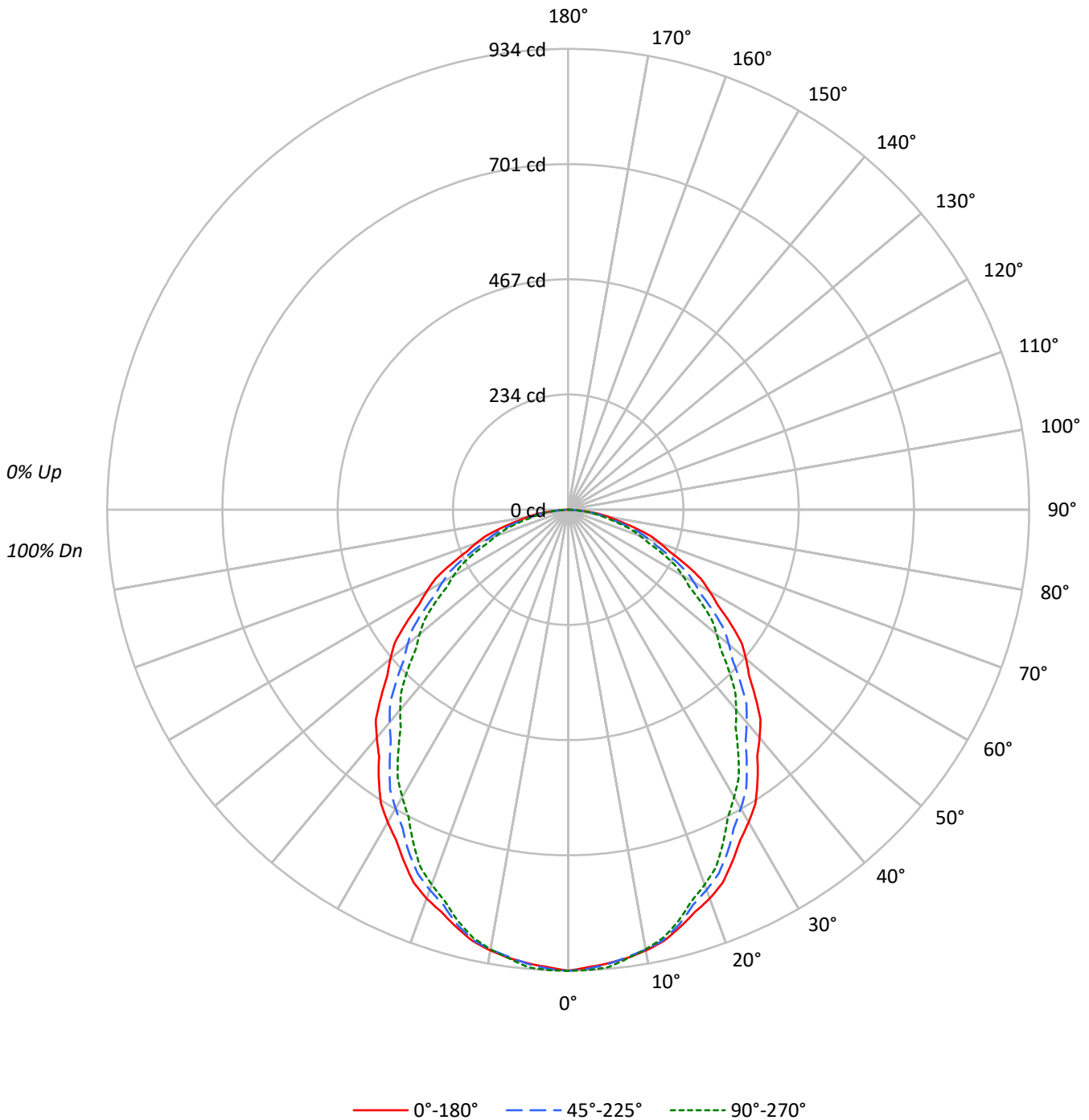
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2179.2 lumens  
Efficiency: N/A  
Efficacy: 117.2 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	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°	16277	16277	16277
5°	16139	16164	16276
10°	16047	16009	15997
15°	15792	15689	15561
20°	15544	15199	14988
25°	15126	14700	14289
30°	14708	14060	13527
35°	14225	13404	12764
40°	13715	12787	12039
45°	13200	12143	11333
50°	12738	11516	10644
55°	12168	10865	9997
60°	11516	10245	9346
65°	10823	9553	8700
70°	10058	8779	7873
75°	9152	7948	7127
80°	8185	6961	6459
85°	6295	5715	4716

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13200 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.9	4.0
10°-20°	245.0	11.2
20°-30°	352.2	16.2
30°-40°	395.9	18.2
40°-50°	382.4	17.5
50°-60°	323.1	14.8
60°-70°	232.1	10.7
70°-80°	126.9	5.8
80°-90°	33.7	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°	685.1	31.4
0°-40°	1081.0	49.6
0°-60°	1786.5	82.0
0°-90°	2179.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2179.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	934	934	934	934	934	
5°	923	936	924	925	931	88
15°	876	884	870	862	863	247
25°	787	788	765	748	744	362
35°	669	661	630	606	600	418
45°	536	525	493	467	460	414
55°	401	386	358	336	329	358
65°	263	253	232	215	211	260
75°	136	128	118	109	106	145
85°	32	29	29	25	24	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	934.5	934.5	934.5	934.5	934.5
2.5°	928.2	939.4	931.1	932.3	933.9
5°	923.1	935.7	924.5	924.6	930.9
7.5°	916.5	928.4	914.3	911.7	917.6
10°	907.3	919.2	905.2	900.3	904.5
12.5°	895.3	906.6	893.2	885.4	889.0
15°	875.8	883.5	870.1	861.6	863.0
17.5°	854.7	859.4	840.1	832.9	831.5
20°	838.6	842.8	820.0	810.0	808.6
22.5°	818.0	821.7	797.7	785.3	783.4
25°	787.1	787.8	764.9	747.7	743.5
27.5°	754.8	752.5	727.1	706.7	701.2
30°	731.3	728.5	699.1	677.5	672.6
32.5°	706.1	701.1	671.6	648.3	643.4
35°	669.0	661.3	630.4	605.9	600.3
37.5°	629.5	620.9	590.5	563.9	557.6
40°	603.2	593.4	562.4	535.8	529.5
42.5°	576.9	566.0	534.4	507.7	500.9
45°	535.9	524.8	493.0	467.1	460.1
47.5°	497.0	482.8	451.9	426.2	419.2
50°	470.1	454.7	425.0	399.8	392.8
52.5°	442.6	426.7	398.1	374.1	367.1
55°	400.7	386.0	357.8	335.5	329.2
57.5°	359.2	345.1	319.3	298.0	291.8
60°	330.6	318.7	294.1	273.9	268.3
62.5°	303.1	292.3	268.9	250.5	244.9
65°	262.6	252.8	231.8	215.3	211.1
67.5°	223.3	213.5	196.5	181.6	176.9
70°	197.5	187.7	172.4	158.8	154.6
72.5°	172.9	162.5	150.1	137.6	134.5
75°	136.0	127.6	118.1	108.7	105.9
77.5°	103.3	95.2	88.3	81.7	81.0
80°	81.6	74.6	69.4	65.1	64.4
82.5°	61.0	55.6	52.2	49.1	48.9
85°	31.5	29.4	28.6	25.0	23.6
87.5°	9.2	9.2	8.0	6.9	6.9
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	20.54	22.12	20.91	22.44	22.75	19.44	21.02	19.81	21.34	21.65
	3H	22.24	23.66	22.62	23.99	24.35	21.02	22.44	21.40	22.77	23.13
	4H	22.90	24.24	23.30	24.58	24.96	21.62	22.96	22.02	23.31	23.69
	6H	23.33	24.57	23.75	24.94	25.33	22.03	23.27	22.44	23.63	24.03
	8H	23.50	24.68	23.93	25.07	25.47	22.19	23.37	22.62	23.76	24.16
	12H	23.60	24.73	24.03	25.11	25.54	22.28	23.41	22.70	23.79	24.22
4H	2H	21.03	22.37	21.43	22.72	23.10	20.16	21.50	20.56	21.84	22.22
	3H	22.96	24.08	23.37	24.48	24.88	21.95	23.07	22.36	23.47	23.87
	4H	23.74	24.74	24.17	25.16	25.60	22.65	23.66	23.09	24.08	24.51
	6H	24.29	25.17	24.75	25.61	26.07	23.17	24.05	23.62	24.49	24.95
	8H	24.51	25.34	24.98	25.78	26.25	23.37	24.20	23.83	24.64	25.10
	12H	24.65	25.39	25.13	25.87	26.34	23.49	24.23	23.98	24.71	25.18
8H	4H	23.95	24.77	24.41	25.21	25.68	22.98	23.80	23.44	24.25	24.71
	6H	24.62	25.30	25.11	25.79	26.26	23.61	24.30	24.11	24.79	25.26
	8H	24.91	25.52	25.42	26.03	26.52	23.89	24.51	24.41	25.01	25.50
	12H	25.12	25.66	25.63	26.15	26.71	24.08	24.62	24.58	25.11	25.67
12H	4H	23.96	24.70	24.44	25.17	25.64	23.02	23.76	23.50	24.23	24.70
	6H	24.65	25.26	25.16	25.77	26.26	23.68	24.29	24.19	24.80	25.29
	8H	25.00	25.54	25.51	26.03	26.59	24.02	24.56	24.53	25.05	25.62