

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: P824318

Luminaire Tested: CB3-030D-840-1D-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

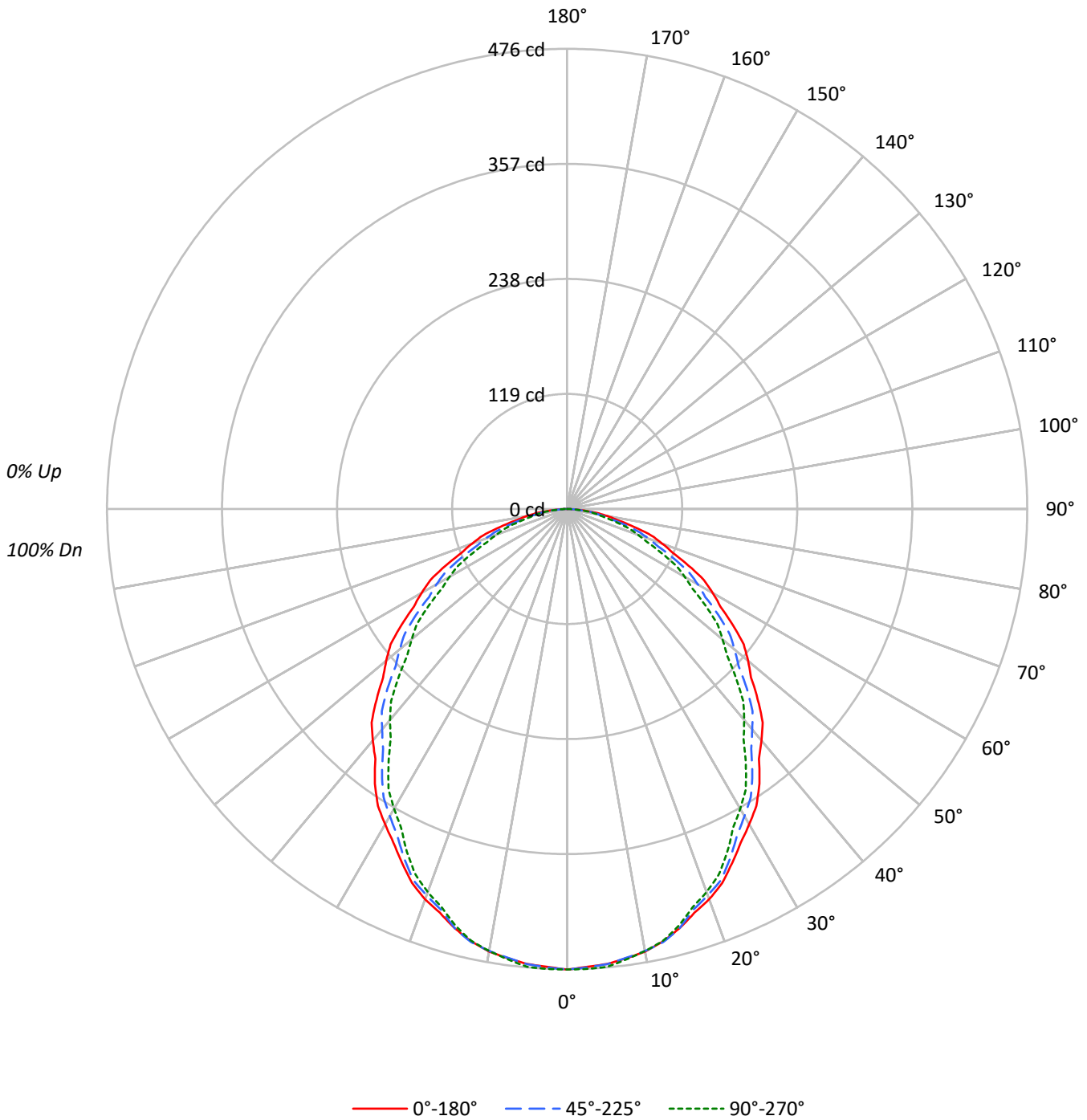
Test Method: LM-79-2019  
Report Number: P824318  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-242-3, G2-2312-242-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB3-030D-840-1D-UNV-STD-W-4  
Description: CORELITE BRYX SLOT LED LUMINAIRE  
3-INCH APERTURE  
DOWNLIGHT 300 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 80 CRI, 4000K CCT LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1140.6 lumens  
Efficiency: N/A  
Efficacy: 129.6 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	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°	5390	5390	5390
5°	5365	5369	5399
10°	5341	5333	5333
15°	5259	5259	5228
20°	5174	5121	5076
25°	5044	4980	4891
30°	4920	4792	4677
35°	4790	4613	4449
40°	4619	4399	4208
45°	4461	4207	3948
50°	4300	3978	3693
55°	4125	3758	3450
60°	3935	3530	3177
65°	3713	3272	2889
70°	3460	2967	2574
75°	3134	2605	2291
80°	2737	2183	2026
85°	2103	1843	1843

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4461 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.0	3.9
10°-20°	126.3	11.1
20°-30°	183.5	16.1
30°-40°	208.6	18.3
40°-50°	202.5	17.8
50°-60°	171.0	15.0
60°-70°	121.7	10.7
70°-80°	65.0	5.7
80°-90°	17.2	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°	354.7	31.1
0°-40°	563.3	49.4
0°-60°	936.8	82.1
0°-90°	1140.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1140.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	476	476	476	476	476	
5°	472	478	473	472	475	45
15°	449	453	449	446	446	126
25°	404	405	399	394	392	186
35°	347	344	334	324	322	216
45°	279	274	263	250	247	215
55°	209	204	190	178	175	187
65°	139	134	122	111	108	137
75°	72	68	60	53	52	76
85°	16	15	14	14	14	20
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	476.4	476.4	476.4	476.4	476.4
2.5°	474.0	478.8	474.5	475.1	476.2
5°	472.4	478.3	472.7	472.1	475.4
7.5°	468.7	474.1	468.3	467.0	469.9
10°	464.9	470.9	464.2	462.6	464.2
12.5°	458.2	464.4	459.1	456.4	457.7
15°	449.0	453.0	449.0	446.3	446.3
17.5°	437.9	442.0	434.5	432.6	431.9
20°	429.7	433.4	425.3	422.6	421.6
22.5°	418.9	422.3	415.6	411.0	409.7
25°	404.0	405.3	398.9	393.5	391.8
27.5°	389.1	389.4	380.6	374.0	371.8
30°	376.6	376.9	366.8	359.7	358.0
32.5°	364.2	363.2	353.5	345.0	343.9
35°	346.8	343.5	334.0	324.1	322.1
37.5°	325.9	323.9	312.7	302.8	299.8
40°	312.7	309.3	297.8	287.9	284.9
42.5°	299.4	295.6	283.7	272.7	269.5
45°	278.8	274.5	262.9	250.3	246.7
47.5°	258.1	253.4	240.6	228.4	224.4
50°	244.3	239.3	226.0	214.1	209.8
52.5°	230.2	225.0	211.7	199.5	196.0
55°	209.1	203.5	190.5	178.2	174.9
57.5°	188.0	182.4	169.5	157.9	154.0
60°	173.9	168.6	156.0	144.4	140.4
62.5°	159.6	154.5	142.2	130.9	127.2
65°	138.7	133.8	122.2	111.2	107.9
67.5°	118.1	113.9	102.4	92.4	89.7
70°	104.6	100.6	89.7	80.5	77.8
72.5°	91.6	87.3	76.9	69.1	67.3
75°	71.7	67.8	59.6	53.4	52.4
77.5°	53.6	50.4	43.2	39.8	39.3
80°	42.0	39.0	33.5	31.1	31.1
82.5°	31.1	28.7	25.1	24.1	24.1
85°	16.2	14.9	14.2	14.2	14.2
87.5°	4.9	4.9	4.6	4.3	4.3
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	16.85	18.43	17.21	18.74	19.06	15.77	17.35	16.14	17.67	17.98
	3H	18.57	19.99	18.94	20.32	20.68	17.23	18.66	17.61	18.99	19.35
	4H	19.23	20.57	19.63	20.92	21.29	17.78	19.12	18.18	19.47	19.85
	6H	19.65	20.89	20.06	21.25	21.64	18.14	19.37	18.55	19.74	20.13
	8H	19.80	20.99	20.23	21.38	21.78	18.28	19.46	18.70	19.85	20.25
	12H	19.89	21.03	20.32	21.41	21.84	18.38	19.51	18.81	19.89	20.32
4H	2H	17.34	18.68	17.74	19.03	19.40	16.48	17.82	16.88	18.17	18.54
	3H	19.29	20.41	19.70	20.81	21.21	18.16	19.28	18.57	19.68	20.08
	4H	20.07	21.08	20.50	21.49	21.93	18.79	19.80	19.23	20.22	20.65
	6H	20.61	21.49	21.06	21.93	22.39	19.25	20.12	19.70	20.57	21.02
	8H	20.81	21.64	21.28	22.08	22.55	19.43	20.25	19.89	20.70	21.16
	12H	20.95	21.68	21.43	22.16	22.63	19.57	20.31	20.05	20.78	21.25
8H	4H	20.25	21.07	20.71	21.51	21.98	19.11	19.93	19.57	20.38	20.84
	6H	20.90	21.58	21.39	22.07	22.54	19.67	20.35	20.16	20.84	21.31
	8H	21.18	21.79	21.69	22.30	22.78	19.92	20.54	20.44	21.04	21.53
	12H	21.37	21.92	21.88	22.41	22.97	20.13	20.67	20.64	21.16	21.73
12H	4H	20.26	20.99	20.74	21.47	21.94	19.15	19.88	19.63	20.36	20.83
	6H	20.92	21.53	21.43	22.04	22.53	19.73	20.34	20.24	20.85	21.34
	8H	21.25	21.79	21.76	22.28	22.85	20.04	20.58	20.55	21.08	21.64