

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: P824271

Luminaire Tested: CB3-D-030U-030D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824271
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-D-030U-030D-830-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
3-INCH APERTURE
DOWNLIGHT 300 LUMENS PER FOOT
UPLIGHT 300 LUMENS PER FOOT
Light Source: 80 CRI, 3000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2117.3 lumens
Efficiency: N/A
Efficacy: 126.8 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: General Diffuse

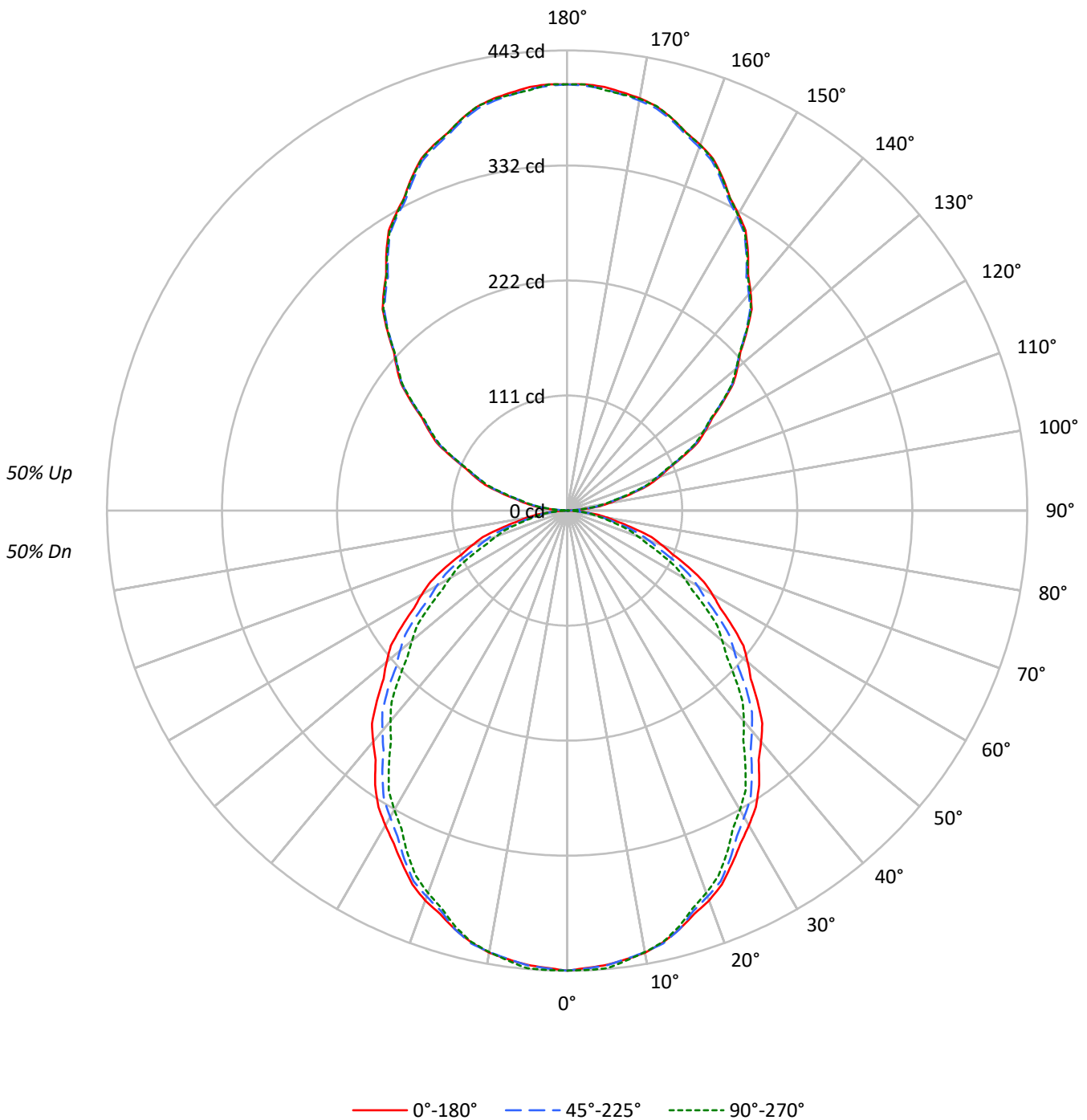
Input Watts (W): 16.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	94	90	86	90	87	83	80	73	71	69	61	60	58	50	49	48	43
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	41	36
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35	31
4	75	64	56	50	69	59	53	47	51	46	41	43	39	36	35	32	30	26
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23
6	63	51	43	38	58	48	41	35	41	35	31	35	30	27	29	26	23	20
7	59	46	38	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18
8	54	42	34	29	50	39	32	28	34	29	25	29	25	22	24	21	19	16
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5011	5011	5011
5°	4987	4991	5024
10°	4966	4959	4959
15°	4889	4889	4860
20°	4810	4761	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	2.0
10°-20°	117.4	5.5
20°-30°	170.5	8.1
30°-40°	193.8	9.2
40°-50°	188.1	8.9
50°-60°	158.8	7.5
60°-70°	113.0	5.3
70°-80°	60.4	2.9
80°-90°	15.9	0.8
90°-100°	17.3	0.8
100°-110°	67.8	3.2
110°-120°	120.9	5.7
120°-130°	163.6	7.7
130°-140°	188.1	8.9
140°-150°	188.8	8.9
150°-160°	162.3	7.7
160°-170°	109.9	5.2
170°-180°	38.8	1.8
0°-30°	329.7	15.6
0°-40°	523.5	24.7
0°-60°	870.4	41.1
0°-90°	1059.7	50.1
90°-120°	206.1	9.7
90°-150°	746.6	35.3
90°-180°	1058.0	50.0
0°-180°	2117.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	443	443	443	443	443	
5°	439	445	439	439	442	42
15°	417	421	417	415	415	118
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	1
95°	17	15	14	13	13	19
105°	66	66	63	62	62	70
115°	123	124	121	121	120	122
125°	184	186	182	182	182	164
135°	245	247	243	241	244	189
145°	303	306	301	299	302	190
155°	354	357	351	350	353	163
165°	391	394	389	387	391	110
175°	409	413	408	405	406	39
180°	410	410	410	410	410	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	442.9	442.9	442.9	442.9	442.9
2.5°	440.6	445.1	441.1	441.7	442.6
5°	439.1	444.7	439.4	438.9	442.3
7.5°	435.7	440.8	435.3	434.1	436.9
10°	432.2	437.7	431.6	430.0	431.6
12.5°	425.9	431.7	426.8	424.3	425.5
15°	417.4	421.1	417.4	414.9	414.9
17.5°	407.1	410.9	404.0	402.2	401.5
20°	399.5	402.9	395.4	392.9	391.7
22.5°	389.5	392.6	386.4	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
92.5°	4.5	4.0	2.5	2.0	2.0
95°	16.7	15.1	13.5	12.6	12.9
97.5°	30.8	29.3	27.3	26.4	26.6
100°	40.6	39.4	37.1	36.2	36.2
102.5°	50.2	49.4	47.2	46.3	46.5
105°	65.8	65.5	63.2	62.3	61.7
107.5°	83.0	82.4	80.0	79.9	79.4
110°	94.1	93.8	91.6	91.2	90.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	105.4	105.8	103.4	103.1	102.8
115°	123.3	124.0	121.1	120.8	120.5
117.5°	141.7	142.6	139.6	139.2	138.7
120°	153.5	155.4	151.7	151.3	151.0
122.5°	165.6	167.2	163.7	163.2	163.1
125°	183.8	185.9	182.2	181.6	181.9
127.5°	201.9	204.1	200.6	199.4	200.1
130°	214.0	216.4	212.7	211.5	212.4
132.5°	226.3	228.8	225.0	223.8	225.2
135°	244.8	247.3	243.2	241.4	243.9
137.5°	262.9	265.0	260.6	259.3	261.9
140°	274.7	276.8	272.2	270.7	273.7
142.5°	286.3	288.7	283.5	282.0	285.3
145°	303.3	305.8	300.8	299.3	302.1
147.5°	319.7	322.2	317.2	315.4	318.2
150°	329.7	332.5	327.2	325.7	328.8
152.5°	339.6	342.6	337.0	335.3	339.1
155°	354.0	357.1	351.1	349.7	353.3
157.5°	366.9	369.8	364.4	362.9	366.1
160°	374.7	377.8	372.2	370.7	374.4
162.5°	381.5	384.6	379.5	377.5	381.2
165°	390.8	394.2	388.9	386.8	390.8
167.5°	398.5	402.2	396.6	394.7	398.7
170°	403.1	406.4	400.9	398.4	402.4
172.5°	406.1	409.5	403.9	401.4	404.2
175°	409.4	413.0	407.5	405.0	406.5
177.5°	410.8	413.8	409.3	407.1	410.5
180°	410.3	410.3	410.3	410.3	410.3



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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	12.75	13.60	13.71	14.57	15.85	11.67	12.52	12.63	13.49	14.77
	3H	14.42	15.18	15.39	16.16	17.45	13.09	13.85	14.06	14.83	16.12
	4H	15.05	15.77	16.03	16.75	18.06	13.60	14.32	14.59	15.31	16.61
	6H	15.43	16.10	16.43	17.09	18.40	13.92	14.58	14.91	15.57	16.89
	8H	15.57	16.20	16.57	17.21	18.52	14.04	14.67	15.04	15.68	16.99
	12H	15.63	16.24	16.64	17.24	18.57	14.12	14.72	15.12	15.72	17.06
4H	2H	13.16	13.88	14.15	14.86	16.17	12.30	13.02	13.29	14.01	15.31
	3H	15.05	15.65	16.04	16.66	17.98	13.92	14.52	14.92	15.53	16.85
	4H	15.79	16.34	16.80	17.35	18.69	14.52	15.07	15.53	16.08	17.42
	6H	16.30	16.77	17.32	17.80	19.14	14.93	15.41	15.95	16.44	17.77
	8H	16.49	16.93	17.51	17.95	19.30	15.10	15.55	16.12	16.57	17.92
	12H	16.58	16.98	17.62	18.02	19.38	15.21	15.61	16.25	16.65	18.00
8H	4H	15.92	16.36	16.94	17.39	18.74	14.78	15.22	15.80	16.25	17.60
	6H	16.54	16.91	17.59	17.97	19.32	15.31	15.68	16.36	16.74	18.09
	8H	16.82	17.14	17.87	18.19	19.56	15.56	15.89	16.62	16.94	18.30
	12H	16.98	17.26	18.04	18.31	19.72	15.74	16.02	16.80	17.07	18.48
12H	4H	15.90	16.29	16.93	17.33	18.69	14.79	15.18	15.82	16.22	17.58
	6H	16.56	16.88	17.61	17.93	19.30	15.37	15.69	16.42	16.74	18.11
	8H	16.86	17.14	17.91	18.19	19.60	15.65	15.93	16.71	16.98	18.39