

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: P824220

Luminaire Tested: CB2-0U-030D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824220
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: CB2-0U-030D-830-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE
2-INCH APERTURE
DOWNLIGHT 300 LUMENS PER FOOT
DIRECT ONLY
Light Source: 80 CRI, 3000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1059.7 lumens
Efficiency: N/A
Efficacy: 109.2 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

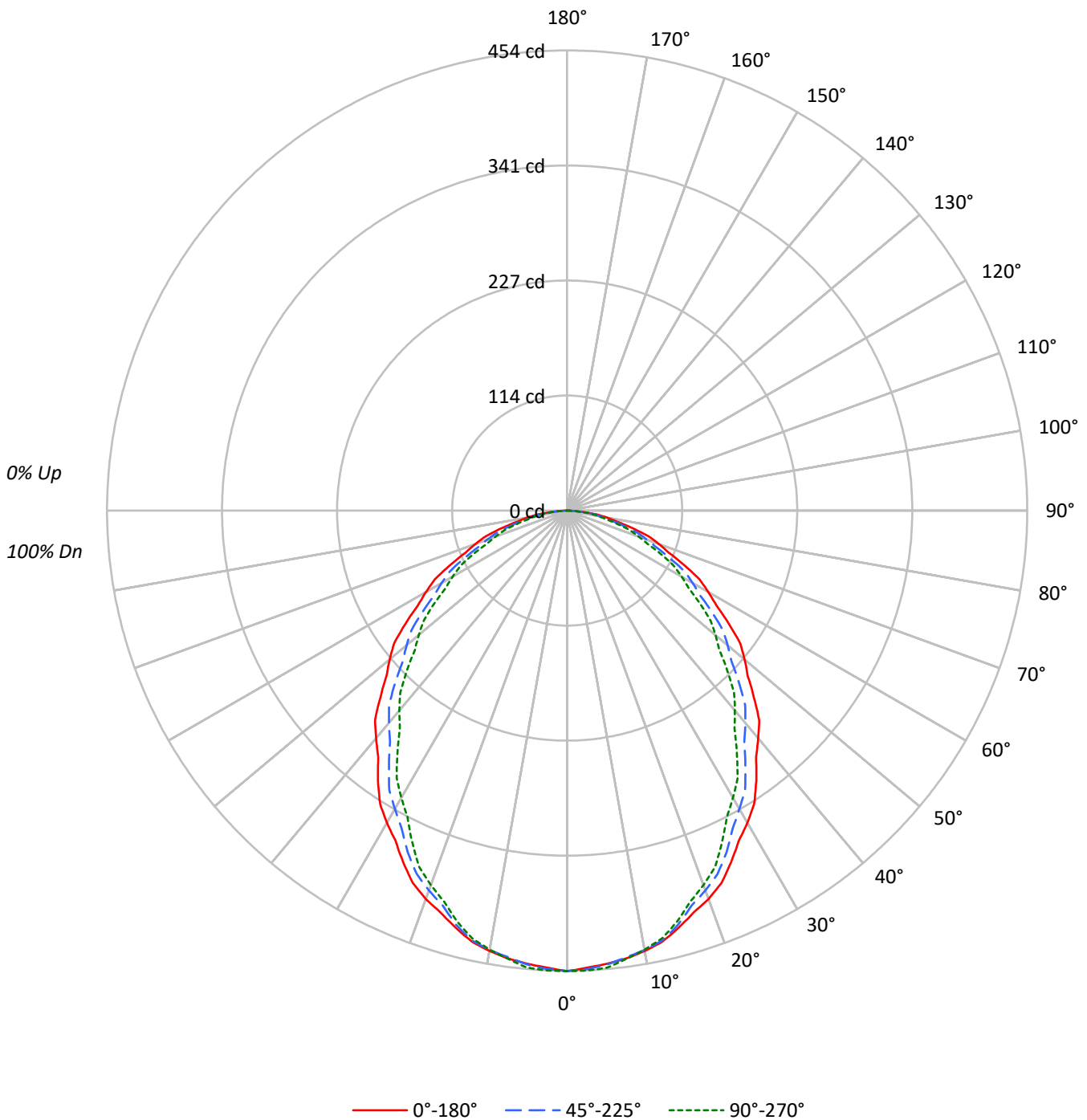
Input Watts (W): 9.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	7914	7914	7914
5°	7849	7861	7915
10°	7803	7785	7778
15°	7680	7629	7566
20°	7559	7392	7288
25°	7355	7149	6947
30°	7152	6836	6579
35°	6917	6517	6207
40°	6669	6218	5855
45°	6419	5904	5510
50°	6194	5601	5175
55°	5918	5284	4862
60°	5601	4981	4546
65°	5263	4645	4228
70°	4889	4273	3830
75°	4448	3863	3466
80°	3982	3390	3139
85°	3058	2778	2298

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6419 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.7	4.0
10°-20°	119.1	11.2
20°-30°	171.3	16.2
30°-40°	192.5	18.2
40°-50°	186.0	17.5
50°-60°	157.1	14.8
60°-70°	112.9	10.7
70°-80°	61.7	5.8
80°-90°	16.4	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°	333.1	31.4
0°-40°	525.6	49.6
0°-60°	868.7	82.0
0°-90°	1059.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1059.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	454	454	454	454	454	
5°	449	455	450	450	453	43
15°	426	430	423	419	420	120
25°	383	383	372	364	362	176
35°	325	322	306	295	292	203
45°	261	255	240	227	224	201
55°	195	188	174	163	160	174
65°	128	123	113	105	103	127
75°	66	62	57	53	52	71
85°	15	14	14	12	12	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	454.4	454.4	454.4	454.4	454.4
2.5°	451.4	456.8	452.8	453.3	454.1
5°	448.9	455.0	449.6	449.6	452.7
7.5°	445.7	451.4	444.6	443.4	446.2
10°	441.2	447.0	440.2	437.8	439.8
12.5°	435.4	440.9	434.3	430.5	432.3
15°	425.9	429.6	423.1	419.0	419.6
17.5°	415.6	417.9	408.5	405.0	404.3
20°	407.8	409.8	398.8	393.9	393.2
22.5°	397.8	399.5	387.9	381.9	380.9
25°	382.7	383.1	372.0	363.6	361.5
27.5°	367.0	365.9	353.6	343.6	341.0
30°	355.6	354.2	339.9	329.5	327.1
32.5°	343.4	340.9	326.6	315.3	312.9
35°	325.3	321.6	306.5	294.7	291.9
37.5°	306.1	301.9	287.1	274.2	271.1
40°	293.3	288.6	273.5	260.5	257.5
42.5°	280.5	275.2	259.9	246.9	243.6
45°	260.6	255.2	239.7	227.1	223.7
47.5°	241.7	234.7	219.8	207.2	203.8
50°	228.6	221.1	206.7	194.4	191.0
52.5°	215.2	207.5	193.6	181.9	178.5
55°	194.9	187.7	174.0	163.1	160.1
57.5°	174.7	167.8	155.3	144.9	141.9
60°	160.8	155.0	143.0	133.2	130.5
62.5°	147.4	142.2	130.8	121.8	119.1
65°	127.7	122.9	112.7	104.7	102.6
67.5°	108.6	103.8	95.5	88.3	86.0
70°	96.0	91.3	83.9	77.2	75.2
72.5°	84.1	79.0	73.0	66.9	65.4
75°	66.1	62.0	57.4	52.9	51.5
77.5°	50.2	46.3	42.9	39.7	39.4
80°	39.7	36.3	33.8	31.7	31.3
82.5°	29.6	27.1	25.4	23.9	23.8
85°	15.3	14.3	13.9	12.2	11.5
87.5°	4.5	4.5	3.9	3.3	3.3
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	18.04	19.62	18.40	19.93	20.25	16.94	18.52	17.30	18.83	19.15
	3H	19.73	21.16	20.11	21.48	21.84	18.52	19.94	18.89	20.27	20.63
	4H	20.39	21.73	20.79	22.08	22.45	19.12	20.46	19.52	20.81	21.18
	6H	20.83	22.07	21.24	22.43	22.82	19.53	20.76	19.94	21.13	21.52
	8H	21.00	22.18	21.42	22.57	22.97	19.69	20.87	20.11	21.26	21.66
	12H	21.09	22.22	21.52	22.61	23.03	19.77	20.90	20.20	21.28	21.71
4H	2H	18.53	19.87	18.93	20.21	20.59	17.65	18.99	18.05	19.34	19.72
	3H	20.46	21.57	20.87	21.97	22.37	19.45	20.57	19.86	20.96	21.36
	4H	21.23	22.24	21.66	22.65	23.09	20.15	21.16	20.58	21.57	22.01
	6H	21.79	22.67	22.24	23.11	23.57	20.66	21.54	21.12	21.98	22.44
	8H	22.01	22.83	22.47	23.27	23.74	20.87	21.69	21.33	22.13	22.60
	12H	22.15	22.89	22.63	23.36	23.83	20.99	21.73	21.47	22.20	22.67
8H	4H	21.44	22.26	21.90	22.71	23.17	20.48	21.30	20.94	21.74	22.21
	6H	22.11	22.79	22.61	23.28	23.76	21.11	21.79	21.60	22.28	22.76
	8H	22.41	23.02	22.92	23.53	24.01	21.39	22.00	21.90	22.51	23.00
	12H	22.61	23.15	23.12	23.65	24.21	21.57	22.11	22.08	22.61	23.17
12H	4H	21.45	22.19	21.93	22.67	23.14	20.51	21.25	20.99	21.73	22.20
	6H	22.14	22.76	22.65	23.26	23.75	21.18	21.79	21.69	22.30	22.78
	8H	22.49	23.04	23.00	23.53	24.09	21.52	22.06	22.02	22.55	23.11