

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: P824221

Luminaire Tested: CB2-0U-030D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824221
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-835-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE
2-INCH APERTURE
DOWNLIGHT 300 LUMENS PER FOOT
DIRECT ONLY
Light Source: 80 CRI, 3500K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1156.1 lumens
Efficiency: N/A
Efficacy: 119.2 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

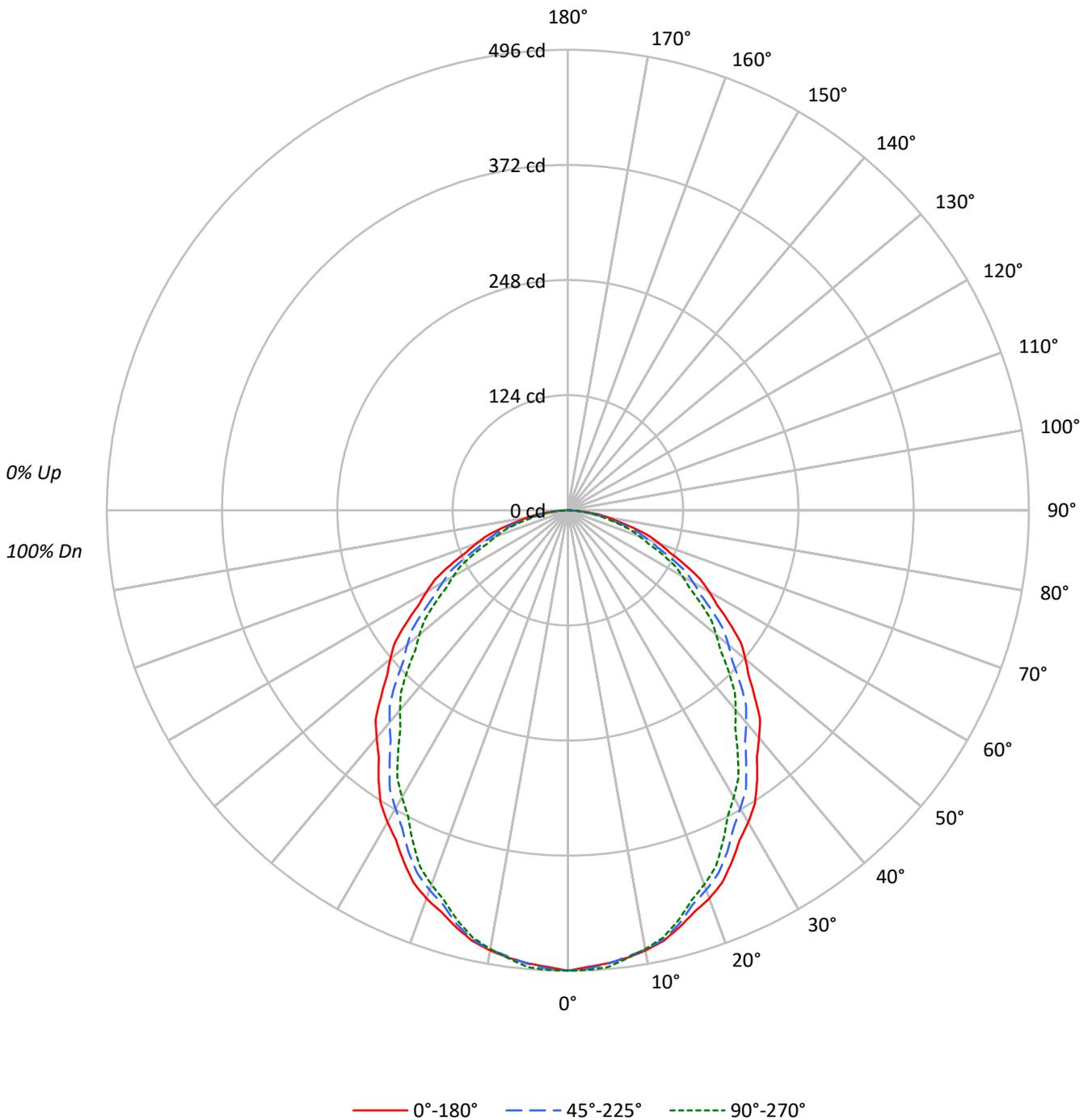
Input Watts (W): 9.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	8636	8636	8636
5°	8562	8576	8635
10°	8514	8493	8486
15°	8379	8323	8255
20°	8246	8065	7952
25°	8025	7799	7580
30°	7803	7459	7176
35°	7546	7110	6772
40°	7276	6785	6387
45°	7003	6444	6013
50°	6758	6110	5647
55°	6456	5764	5302
60°	6110	5434	4960
65°	5741	5069	4616
70°	5337	4660	4176
75°	4852	4213	3782
80°	4343	3691	3430
85°	3337	3038	2498

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7003 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	4.0
10°-20°	130.0	11.2
20°-30°	186.9	16.2
30°-40°	210.0	18.2
40°-50°	202.9	17.6
50°-60°	171.4	14.8
60°-70°	123.1	10.7
70°-80°	67.3	5.8
80°-90°	17.9	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°	363.5	31.4
0°-40°	573.5	49.6
0°-60°	947.8	82.0
0°-90°	1156.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1156.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	496	496	496	496	496	
5°	490	496	490	491	494	46
15°	465	469	462	457	458	131
25°	418	418	406	397	394	192
35°	355	351	334	322	318	222
45°	284	278	262	248	244	220
55°	213	205	190	178	175	190
65°	139	134	123	114	112	138
75°	72	68	63	58	56	77
85°	17	16	15	13	12	21
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	495.8	495.8	495.8	495.8	495.8
2.5°	492.4	498.4	494.0	494.6	495.5
5°	489.7	496.4	490.5	490.6	493.9
7.5°	486.2	492.5	485.1	483.7	486.8
10°	481.4	487.7	480.2	477.6	479.8
12.5°	475.0	481.0	473.8	469.7	471.6
15°	464.7	468.7	461.6	457.1	457.8
17.5°	453.4	455.9	445.7	441.9	441.1
20°	444.9	447.1	435.1	429.7	429.0
22.5°	434.0	435.9	423.2	416.7	415.6
25°	417.6	418.0	405.8	396.7	394.4
27.5°	400.4	399.2	385.8	374.9	372.0
30°	388.0	386.5	370.9	359.4	356.8
32.5°	374.6	371.9	356.3	344.0	341.4
35°	354.9	350.9	334.4	321.5	318.5
37.5°	334.0	329.4	313.3	299.1	295.8
40°	320.0	314.8	298.4	284.3	280.9
42.5°	306.1	300.3	283.5	269.4	265.7
45°	284.3	278.4	261.6	247.8	244.1
47.5°	263.7	256.1	239.8	226.1	222.4
50°	249.4	241.2	225.5	212.1	208.4
52.5°	234.8	226.4	211.2	198.5	194.7
55°	212.6	204.8	189.8	178.0	174.6
57.5°	190.6	183.1	169.4	158.1	154.8
60°	175.4	169.1	156.0	145.3	142.4
62.5°	160.8	155.1	142.7	132.9	129.9
65°	139.3	134.1	123.0	114.2	112.0
67.5°	118.4	113.2	104.2	96.4	93.8
70°	104.8	99.6	91.5	84.2	82.0
72.5°	91.7	86.2	79.6	73.0	71.4
75°	72.1	67.7	62.6	57.7	56.2
77.5°	54.8	50.5	46.8	43.3	43.0
80°	43.3	39.6	36.8	34.5	34.2
82.5°	32.3	29.5	27.7	26.0	26.0
85°	16.7	15.6	15.2	13.3	12.5
87.5°	4.9	4.9	4.3	3.6	3.6
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	18.34	19.92	18.71	20.23	20.55	17.24	18.82	17.61	19.14	19.45
	3H	20.04	21.46	20.41	21.79	22.15	18.82	20.24	19.20	20.57	20.93
	4H	20.69	22.03	21.09	22.38	22.76	19.42	20.76	19.82	21.11	21.49
	6H	21.13	22.37	21.54	22.73	23.13	19.83	21.07	20.24	21.43	21.82
	8H	21.30	22.48	21.72	22.87	23.27	19.99	21.17	20.41	21.56	21.96
	12H	21.39	22.53	21.82	22.91	23.34	20.07	21.21	20.50	21.59	22.02
4H	2H	18.83	20.17	19.23	20.52	20.89	17.96	19.29	18.35	19.64	20.02
	3H	20.76	21.88	21.17	22.28	22.68	19.75	20.87	20.16	21.27	21.67
	4H	21.53	22.54	21.97	22.96	23.39	20.45	21.46	20.88	21.88	22.31
	6H	22.09	22.97	22.55	23.41	23.87	20.97	21.85	21.42	22.29	22.74
	8H	22.31	23.13	22.77	23.58	24.04	21.17	21.99	21.63	22.44	22.90
	12H	22.45	23.19	22.93	23.66	24.13	21.29	22.03	21.77	22.51	22.98
8H	4H	21.74	22.57	22.20	23.01	23.47	20.78	21.60	21.24	22.04	22.51
	6H	22.41	23.10	22.91	23.58	24.06	21.41	22.09	21.91	22.58	23.06
	8H	22.71	23.32	23.22	23.83	24.32	21.69	22.30	22.20	22.81	23.30
	12H	22.92	23.46	23.42	23.95	24.51	21.87	22.41	22.38	22.91	23.47
12H	4H	21.76	22.49	22.24	22.97	23.44	20.82	21.55	21.30	22.03	22.50
	6H	22.45	23.06	22.96	23.57	24.05	21.48	22.09	21.99	22.60	23.09
	8H	22.80	23.34	23.30	23.83	24.39	21.82	22.36	22.33	22.85	23.41