

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: P824326

Luminaire Tested: CB3-0U-120D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824326
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: CB3-0U-120D-835-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE
3-INCH APERTURE
DOWNLIGHT 1200 LUMENS PER FOOT
DIRECT ONLY
Light Source: 80 CRI, 3500K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4798.7 lumens
Efficiency: N/A
Efficacy: 125.0 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

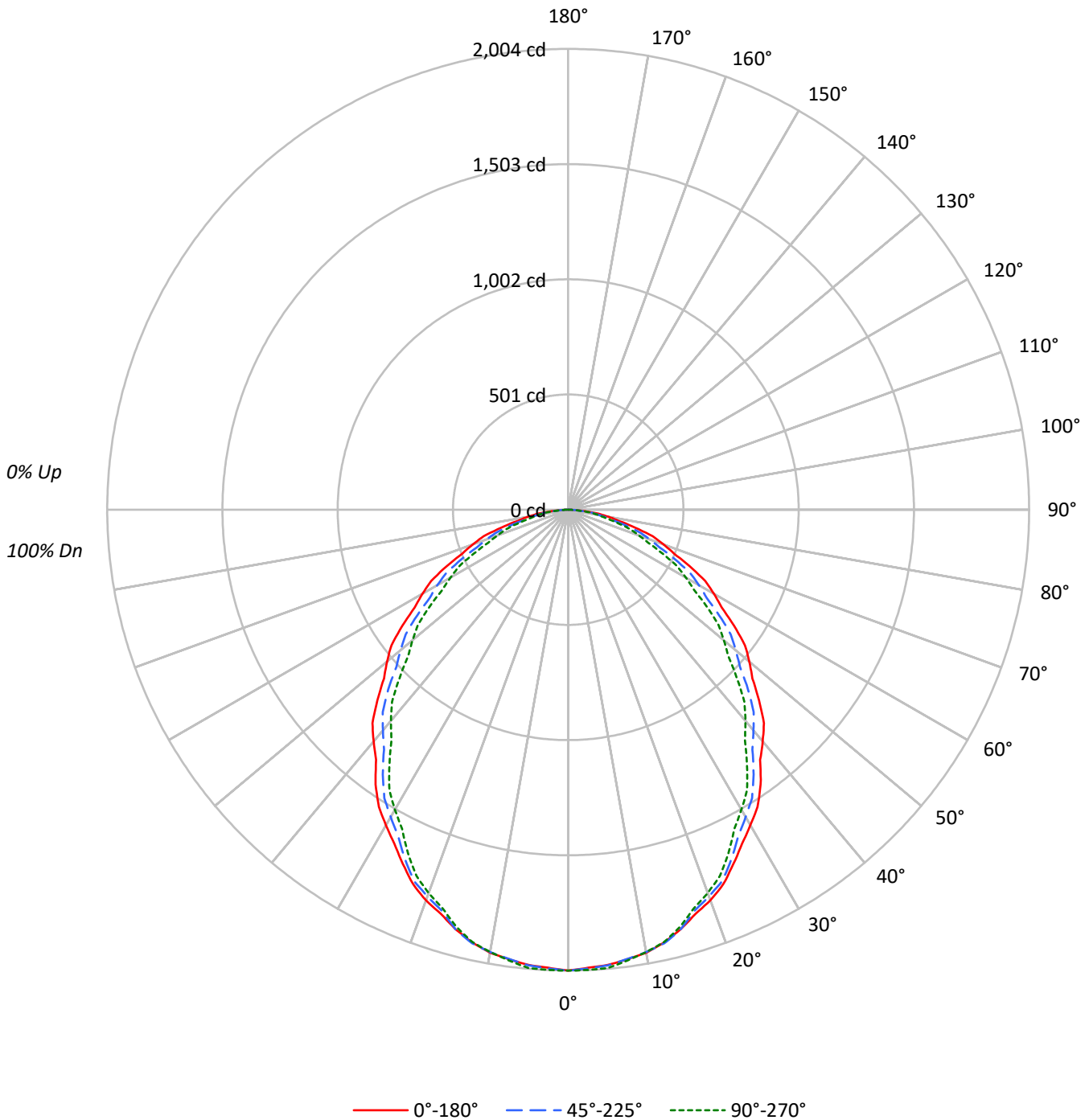
Input Watts (W): 38.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	22679	22679	22679
5°	22571	22587	22717
10°	22473	22439	22439
15°	22128	22128	21995
20°	21768	21546	21357
25°	21219	20954	20580
30°	20700	20161	19677
35°	20154	19407	18719
40°	19429	18503	17703
45°	18769	17699	16606
50°	18092	16738	15536
55°	17355	15811	14519
60°	16558	14852	13369
65°	15627	13758	12157
70°	14553	12478	10831
75°	13194	10951	9648
80°	11500	9181	8536
85°	8867	7763	7763

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18769 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.1	3.9
10°-20°	531.3	11.1
20°-30°	771.9	16.1
30°-40°	877.6	18.3
40°-50°	852.0	17.8
50°-60°	719.3	15.0
60°-70°	511.8	10.7
70°-80°	273.4	5.7
80°-90°	72.2	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°	1492.3	31.1
0°-40°	2370.0	49.4
0°-60°	3941.3	82.1
0°-90°	4798.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4798.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2004	2004	2004	2004	2004	
5°	1987	2012	1989	1986	2000	189
15°	1889	1906	1889	1878	1878	532
25°	1700	1705	1678	1655	1648	783
35°	1459	1445	1405	1364	1355	909
45°	1173	1155	1106	1053	1038	905
55°	880	856	802	750	736	787
65°	584	563	514	468	454	578
75°	302	285	250	225	221	322
85°	68	63	60	60	60	84
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2004.4	2004.4	2004.4	2004.4	2004.4
2.5°	1994.1	2014.2	1996.4	1998.8	2003.2
5°	1987.3	2012.3	1988.7	1986.2	2000.1
7.5°	1971.9	1994.7	1970.2	1964.5	1977.0
10°	1956.0	1981.0	1953.1	1946.2	1953.1
12.5°	1927.5	1953.7	1931.5	1919.9	1925.8
15°	1889.1	1905.8	1889.1	1877.7	1877.7
17.5°	1842.1	1859.6	1828.1	1820.1	1817.0
20°	1807.9	1823.2	1789.4	1777.9	1773.7
22.5°	1762.4	1776.6	1748.4	1728.9	1723.6
25°	1699.7	1705.3	1678.4	1655.4	1648.5
27.5°	1636.8	1638.2	1601.2	1573.4	1564.2
30°	1584.4	1585.8	1543.1	1513.1	1506.1
32.5°	1532.0	1527.9	1487.3	1451.6	1446.9
35°	1459.1	1445.2	1405.0	1363.6	1355.2
37.5°	1371.2	1362.8	1315.4	1273.8	1261.3
40°	1315.4	1301.4	1252.7	1211.2	1198.6
42.5°	1259.6	1243.4	1193.5	1147.4	1133.7
45°	1173.0	1154.9	1106.1	1053.1	1037.8
47.5°	1085.9	1066.1	1012.4	961.1	944.1
50°	1027.8	1006.9	950.9	900.7	882.6
52.5°	968.6	946.6	890.6	839.3	824.5
55°	879.8	856.1	801.5	749.9	736.0
57.5°	790.9	767.5	713.2	664.4	647.7
60°	731.7	709.4	656.3	607.5	590.8
62.5°	671.3	650.2	598.2	550.6	535.0
65°	583.7	562.8	513.9	468.0	454.1
67.5°	496.8	479.0	430.8	388.7	377.5
70°	439.9	423.2	377.2	338.6	327.4
72.5°	385.2	367.4	323.7	290.8	283.0
75°	301.8	285.1	250.5	224.8	220.7
77.5°	225.5	211.8	181.9	167.4	165.1
80°	176.5	164.0	140.9	131.0	131.0
82.5°	131.0	120.7	105.6	101.4	101.4
85°	68.3	62.8	59.8	59.8	59.8
87.5°	20.5	20.5	19.4	18.2	18.2
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	21.84	23.42	22.21	23.74	24.05	20.76	22.34	21.13	22.66	22.97
	3H	23.56	24.98	23.94	25.31	25.67	22.23	23.65	22.60	23.98	24.34
	4H	24.22	25.56	24.62	25.91	26.28	22.78	24.11	23.17	24.46	24.84
	6H	24.64	25.88	25.05	26.24	26.64	23.13	24.37	23.54	24.73	25.12
	8H	24.80	25.98	25.22	26.37	26.77	23.27	24.45	23.70	24.84	25.24
	12H	24.89	26.02	25.32	26.40	26.83	23.37	24.50	23.80	24.88	25.31
4H	2H	22.33	23.67	22.73	24.02	24.39	21.47	22.81	21.87	23.16	23.54
	3H	24.28	25.40	24.69	25.80	26.20	23.15	24.27	23.56	24.67	25.07
	4H	25.06	26.07	25.49	26.48	26.92	23.79	24.79	24.22	25.21	25.65
	6H	25.60	26.48	26.05	26.92	27.38	24.24	25.12	24.69	25.56	26.02
	8H	25.81	26.63	26.27	27.07	27.54	24.42	25.25	24.89	25.69	26.15
	12H	25.94	26.67	26.42	27.15	27.62	24.56	25.30	25.04	25.78	26.25
8H	4H	25.24	26.06	25.70	26.51	26.97	24.10	24.92	24.56	25.37	25.83
	6H	25.89	26.57	26.38	27.06	27.54	24.66	25.34	25.15	25.83	26.31
	8H	26.17	26.78	26.68	27.29	27.78	24.92	25.53	25.43	26.04	26.52
	12H	26.37	26.91	26.87	27.40	27.96	25.13	25.67	25.63	26.16	26.72
12H	4H	25.25	25.98	25.73	26.46	26.93	24.14	24.87	24.62	25.35	25.82
	6H	25.91	26.52	26.42	27.03	27.52	24.72	25.33	25.23	25.84	26.33
	8H	26.24	26.78	26.75	27.27	27.84	25.04	25.58	25.54	26.07	26.63