

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: P824186

Luminaire Tested: CB2-D-030U-120D-840-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824186
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-D-030U-120D-840-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
2-INCH APERTURE
DOWNLIGHT 1200 LUMENS PER FOOT
UPLIGHT 300 LUMENS PER FOOT
Light Source: 80 CRI, 4000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5873.7 lumens
Efficiency: N/A
Efficacy: 113.8 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: Semi-Direct

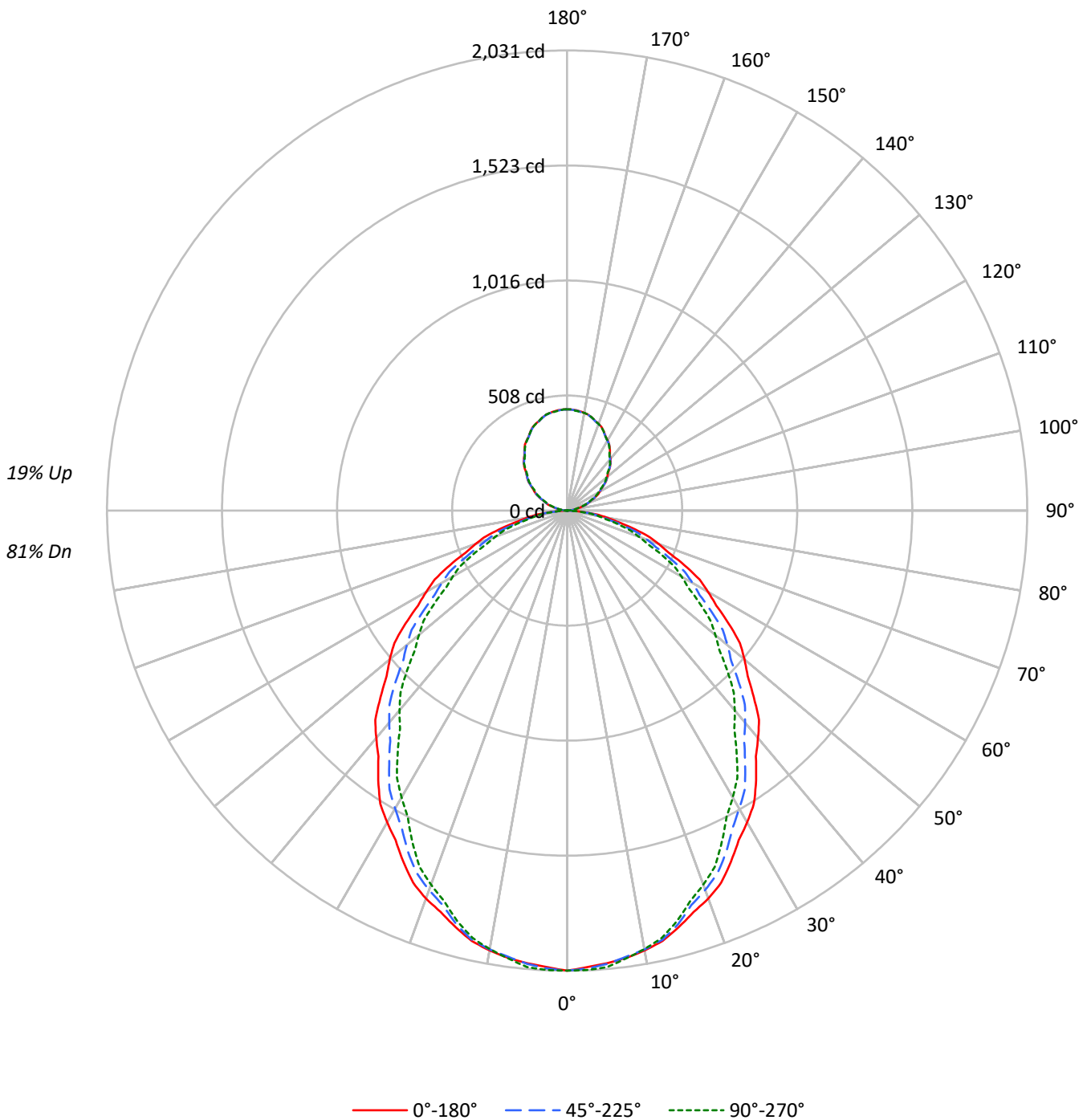
Input Watts (W): 51.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	114	114	114	114	110	110	110	110	100	100	100	92	92	92	84	84	84	81				
1	105	101	97	93	100	96	93	90	89	86	83	82	79	77	75	73	72	68				
2	96	88	82	77	91	85	79	74	78	73	70	72	68	65	66	63	61	58				
3	88	78	70	64	84	75	68	62	69	64	59	64	59	55	59	55	52	49				
4	80	69	61	55	77	67	59	53	62	56	51	57	52	48	53	49	45	43				
5	74	62	54	47	71	60	52	46	56	49	44	52	46	42	48	43	40	37				
6	69	56	48	42	65	54	46	41	50	44	39	47	41	37	44	39	35	33				
7	64	51	43	37	61	49	41	36	46	39	34	43	37	33	40	35	31	29				
8	59	46	38	33	57	45	37	32	42	36	31	39	34	30	37	32	28	26				
9	55	43	35	30	53	41	34	29	39	32	28	36	31	27	34	29	26	24				
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	32	27	23	22				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	35368	35368	35368
5°	35067	35122	35366
10°	34868	34785	34758
15°	34316	34091	33811
20°	33775	33026	32564
25°	32868	31942	31045
30°	31958	30550	29393
35°	30910	29126	27737
40°	29801	27787	26161
45°	28686	26388	24624
50°	27679	25026	23130
55°	26440	23607	21718
60°	25022	22259	20312
65°	23516	20763	18904
70°	21852	19082	17101
75°	19879	17261	15485
80°	17774	15126	14032
85°	13669	12430	10252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 28686 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.0	3.3
10°-20°	532.3	9.1
20°-30°	765.4	13.0
30°-40°	860.2	14.6
40°-50°	831.0	14.1
50°-60°	702.1	12.0
60°-70°	504.3	8.6
70°-80°	275.6	4.7
80°-90°	73.2	1.2
90°-100°	17.2	0.3
100°-110°	71.1	1.2
110°-120°	129.1	2.2
120°-130°	175.7	3.0
130°-140°	202.8	3.5
140°-150°	204.4	3.5
150°-160°	176.4	3.0
160°-170°	119.6	2.0
170°-180°	42.2	0.7
0°-30°	1488.6	25.3
0°-40°	2348.8	40.0
0°-60°	3881.9	66.1
0°-90°	4735.1	80.6
90°-120°	217.5	3.7
90°-150°	800.5	13.6
90°-180°	1139.0	19.4
0°-180°	5873.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2031	2031	2031	2031	2031	
5°	2006	2033	2009	2009	2023	190
15°	1903	1920	1891	1872	1875	536
25°	1710	1712	1662	1625	1615	787
35°	1454	1437	1370	1317	1304	908
45°	1165	1140	1071	1015	1000	900
55°	871	839	777	729	715	778
65°	571	549	504	468	459	566
75°	295	277	256	236	230	316
85°	68	64	62	54	51	81
90°	0	0	0	0	0	3
95°	17	15	14	11	11	19
105°	70	69	68	64	63	75
115°	134	133	131	127	127	132
125°	199	201	197	193	193	178
135°	265	268	264	259	260	204
145°	328	332	327	323	326	205
155°	384	388	382	380	383	177
165°	424	429	424	421	425	120
175°	445	450	444	441	442	42
180°	446	446	446	446	446	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2030.6	2030.6	2030.6	2030.6	2030.6
2.5°	2016.9	2041.2	2023.1	2025.7	2029.3
5°	2005.7	2033.1	2008.8	2009.1	2022.8
7.5°	1991.4	2017.2	1986.7	1981.1	1993.9
10°	1971.5	1997.3	1966.8	1956.2	1965.3
12.5°	1945.4	1970.0	1940.7	1923.8	1931.7
15°	1903.1	1919.8	1890.6	1872.1	1875.1
17.5°	1857.1	1867.4	1825.3	1809.7	1806.7
20°	1822.2	1831.4	1781.8	1760.0	1756.9
22.5°	1777.5	1785.4	1733.3	1706.5	1702.2
25°	1710.3	1711.8	1662.1	1624.6	1615.4
27.5°	1640.0	1635.1	1580.0	1535.6	1523.7
30°	1589.0	1582.9	1519.0	1472.2	1461.5
32.5°	1534.3	1523.3	1459.3	1408.7	1398.1
35°	1453.7	1437.0	1369.8	1316.6	1304.5
37.5°	1367.9	1349.1	1283.0	1225.2	1211.5
40°	1310.7	1289.4	1222.1	1164.2	1150.6
42.5°	1253.5	1229.8	1161.1	1103.3	1088.4
45°	1164.6	1140.2	1071.3	1014.9	999.7
47.5°	1080.0	1049.0	982.0	926.0	910.8
50°	1021.5	988.1	923.6	868.8	853.6
52.5°	961.8	927.1	865.1	812.8	797.6
55°	870.7	838.8	777.4	728.9	715.2
57.5°	780.5	749.8	693.8	647.4	634.1
60°	718.3	692.5	639.0	595.2	583.1
62.5°	658.6	635.2	584.3	544.2	532.1
65°	570.6	549.3	503.8	467.8	458.7
67.5°	485.1	463.8	427.0	394.7	384.3
70°	429.1	407.8	374.7	345.0	335.8
72.5°	375.6	353.1	326.2	299.0	292.3
75°	295.4	277.2	256.5	236.2	230.1
77.5°	224.5	206.9	191.9	177.5	176.0
80°	177.2	162.0	150.8	141.5	139.9
82.5°	132.5	120.9	113.5	106.7	106.3
85°	68.4	63.9	62.2	54.3	51.3
87.5°	19.9	19.9	17.5	14.9	15.0
90°	0.0	0.0	0.3	0.0	0.3
92.5°	4.2	3.6	3.4	2.2	2.6
95°	16.7	14.7	13.9	10.8	10.8
97.5°	31.6	29.5	28.4	25.2	24.5
100°	42.1	40.1	39.0	35.5	34.8
102.5°	53.0	52.1	50.1	46.4	45.7
105°	70.3	69.3	67.6	63.7	63.0
107.5°	88.2	88.4	85.7	82.6	81.6
110°	101.0	100.7	98.6	95.4	94.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	114.1	113.5	111.4	108.2	107.5
115°	133.7	133.4	130.9	127.1	126.8
117.5°	152.4	153.5	150.6	146.5	146.4
120°	165.8	167.1	163.7	160.2	159.5
122.5°	178.9	180.5	177.1	173.0	173.2
125°	198.9	200.9	196.8	192.6	192.9
127.5°	218.1	220.7	216.8	212.6	213.0
130°	231.2	234.3	230.2	225.7	226.4
132.5°	244.6	247.7	243.6	238.8	240.0
135°	265.0	268.1	263.6	258.8	260.5
137.5°	284.2	287.3	282.4	278.4	280.4
140°	297.1	300.1	295.0	291.2	293.2
142.5°	309.6	313.2	307.8	303.7	306.3
145°	328.4	332.2	327.0	323.2	325.6
147.5°	346.2	350.0	344.8	341.1	343.6
150°	357.7	361.4	355.9	352.8	355.6
152.5°	368.2	372.5	366.8	363.7	367.3
155°	384.1	387.9	382.4	380.0	383.1
157.5°	397.9	402.3	396.8	394.8	397.2
160°	407.1	411.2	405.7	403.7	406.4
162.5°	414.1	418.4	413.2	410.9	414.2
165°	424.5	429.0	423.5	421.1	424.9
167.5°	432.7	437.4	431.9	429.5	433.3
170°	437.8	442.2	436.4	433.7	437.8
172.5°	441.1	445.8	439.7	437.0	439.7
175°	444.7	449.5	443.7	440.9	441.9
177.5°	446.5	450.3	445.6	443.2	446.5
180°	446.5	446.5	446.5	446.5	446.5



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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	21.86	23.06	22.50	23.72	24.47	20.76	21.96	21.40	22.62	23.37
	3H	23.53	24.61	24.19	25.28	26.07	22.31	23.39	22.97	24.06	24.85
	4H	24.17	25.19	24.85	25.87	26.67	22.90	23.92	23.58	24.60	25.40
	6H	24.59	25.53	25.28	26.22	27.04	23.29	24.23	23.98	24.92	25.74
	8H	24.75	25.65	25.45	26.35	27.18	23.44	24.33	24.14	25.04	25.86
	12H	24.83	25.69	25.54	26.39	27.24	23.51	24.37	24.22	25.07	25.92
4H	2H	22.31	23.33	22.99	24.00	24.81	21.43	22.45	22.11	23.13	23.93
	3H	24.21	25.06	24.90	25.77	26.59	23.20	24.05	23.89	24.76	25.59
	4H	24.97	25.74	25.68	26.46	27.31	23.89	24.66	24.59	25.38	26.23
	6H	25.51	26.17	26.23	26.92	27.78	24.38	25.05	25.11	25.79	26.65
	8H	25.72	26.34	26.45	27.08	27.96	24.58	25.20	25.31	25.94	26.82
	12H	25.84	26.40	26.59	27.17	28.04	24.68	25.24	25.43	26.01	26.89
8H	4H	25.15	25.77	25.88	26.51	27.39	24.19	24.81	24.92	25.55	26.42
	6H	25.80	26.32	26.57	27.11	27.98	24.80	25.32	25.57	26.10	26.98
	8H	26.10	26.56	26.87	27.34	28.23	25.08	25.54	25.86	26.33	27.22
	12H	26.29	26.69	27.06	27.47	28.42	25.25	25.65	26.02	26.43	27.38
12H	4H	25.15	25.71	25.90	26.47	27.35	24.21	24.77	24.96	25.53	26.41
	6H	25.84	26.30	26.61	27.08	27.97	24.87	25.33	25.64	26.11	27.01
	8H	26.17	26.58	26.95	27.35	28.30	25.19	25.60	25.97	26.37	27.32