

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: P824337

Luminaire Tested: CB3-D-125U-030D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824337
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-125U-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 1250 LUMENS PER FOOT
Light Source: 80 CRI, 3000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5686.0 lumens
Efficiency: N/A
Efficacy: 124.1 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: Semi-Indirect

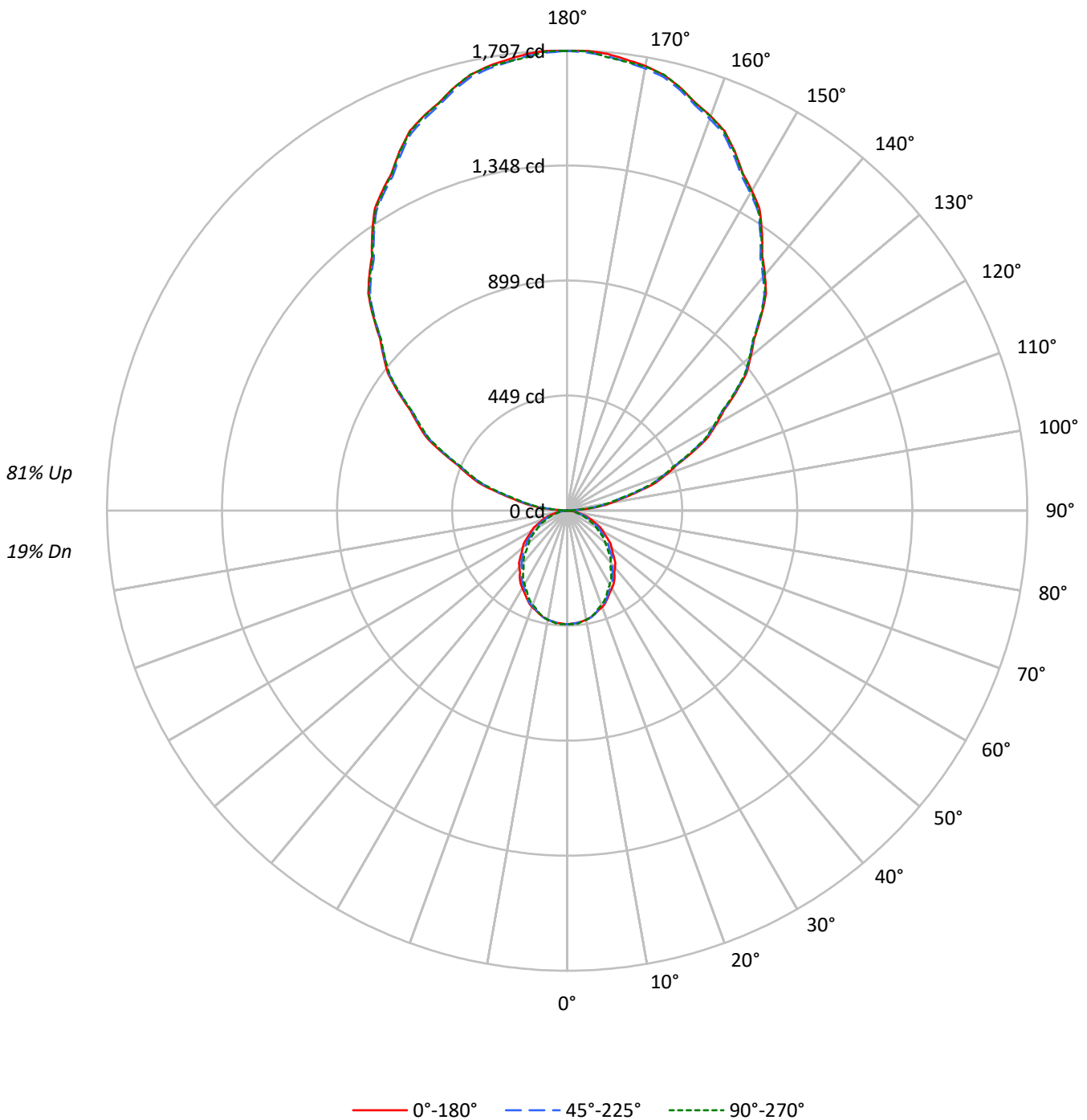
Input Watts (W): 45.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	100	100	100	100	88	88	88	88	66	66	66	46	46	46	27	27	27	19
1	91	87	83	80	80	77	74	71	58	56	54	40	39	38	24	24	23	16
2	83	76	70	65	73	67	62	58	51	47	45	35	33	32	21	20	20	13
3	75	67	60	54	66	59	53	49	45	41	38	31	29	27	19	18	17	11
4	69	59	51	46	60	52	46	41	40	35	32	28	25	23	17	16	14	10
5	63	52	45	39	55	46	40	35	35	31	27	25	22	20	15	14	13	9
6	58	47	39	34	51	41	35	30	32	27	24	22	20	17	14	12	11	8
7	53	42	34	29	47	37	31	26	29	24	21	20	17	15	13	11	10	7
8	49	38	31	26	44	34	27	23	26	21	18	18	16	13	12	10	9	6
9	46	34	27	23	40	31	25	20	24	19	16	17	14	12	11	9	8	5
10	43	31	25	20	38	28	22	18	22	17	14	16	13	11	10	8	7	5

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5024	5024	5024
5°	5000	5003	5047
10°	4978	4970	4970
15°	4902	4902	4873
20°	4824	4774	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°	41.9	0.7
10°-20°	117.7	2.1
20°-30°	170.6	3.0
30°-40°	193.8	3.4
40°-50°	188.1	3.3
50°-60°	158.8	2.8
60°-70°	113.0	2.0
70°-80°	60.4	1.1
80°-90°	15.9	0.3
90°-100°	75.8	1.3
100°-110°	296.7	5.2
110°-120°	528.9	9.3
120°-130°	715.7	12.6
130°-140°	822.8	14.5
140°-150°	825.6	14.5
150°-160°	710.0	12.5
160°-170°	480.6	8.5
170°-180°	169.5	3.0
0°-30°	330.2	5.8
0°-40°	524.0	9.2
0°-60°	870.9	15.3
0°-90°	1060.3	18.6
90°-120°	901.4	15.9
90°-150°	3265.5	57.4
90°-180°	4626.0	81.4
0°-180°	5686.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	444	444	444	444	444	
5°	440	446	440	440	444	42
15°	418	422	418	416	416	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	3
95°	73	66	59	55	56	83
105°	288	286	277	272	270	307
115°	540	542	530	528	527	535
125°	804	813	797	794	795	719
135°	1071	1081	1064	1056	1067	825
145°	1327	1337	1316	1309	1321	829
155°	1548	1562	1536	1529	1546	712
165°	1709	1724	1701	1692	1709	482
175°	1790	1807	1782	1771	1778	170
180°	1795	1795	1795	1795	1795	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	444.0	444.0	444.0	444.0	444.0
2.5°	441.7	446.1	442.2	442.7	443.7
5°	440.2	445.7	440.5	440.0	444.4
7.5°	436.8	441.8	436.4	435.2	437.9
10°	433.3	438.8	432.6	431.1	432.6
12.5°	427.0	432.8	427.9	425.3	426.6
15°	418.5	422.2	418.5	416.0	416.0
17.5°	408.1	412.0	405.0	403.3	402.3
20°	400.6	404.0	396.5	393.9	391.7
22.5°	390.5	393.7	387.4	382.0	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°	19.8	17.7	11.0	8.8	8.8
95°	72.9	66.2	59.2	55.1	56.4
97.5°	134.6	128.1	119.5	115.4	116.4
100°	177.5	172.1	162.4	158.3	158.3
102.5°	219.4	216.1	206.4	202.3	203.4
105°	287.6	286.3	276.6	272.4	269.7
107.5°	363.0	360.6	349.8	349.5	347.1
110°	411.5	410.1	400.5	399.1	397.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	461.0	462.9	452.2	450.8	449.5
115°	539.5	542.2	529.8	528.4	527.1
117.5°	619.8	623.6	610.5	609.1	606.6
120°	671.6	679.7	663.3	661.9	660.6
122.5°	724.4	731.4	716.2	713.7	713.4
125°	803.7	813.1	796.8	794.1	795.4
127.5°	883.0	892.7	877.5	872.0	875.0
130°	935.8	946.6	930.3	924.9	928.9
132.5°	989.8	1000.5	984.3	978.9	985.1
135°	1070.7	1081.4	1063.8	1055.8	1066.6
137.5°	1149.7	1159.1	1139.8	1134.2	1145.5
140°	1201.4	1210.8	1190.4	1183.8	1197.3
142.5°	1252.1	1262.6	1240.0	1233.4	1247.9
145°	1326.7	1337.4	1315.6	1309.0	1321.2
147.5°	1398.2	1409.3	1387.2	1379.5	1391.9
150°	1442.3	1454.4	1431.2	1424.7	1438.1
152.5°	1485.2	1498.4	1474.2	1466.6	1483.3
155°	1548.2	1561.7	1535.8	1529.3	1545.5
157.5°	1604.9	1617.3	1593.9	1587.4	1601.3
160°	1639.1	1652.5	1628.0	1621.5	1637.7
162.5°	1668.8	1682.2	1660.0	1651.3	1667.4
165°	1709.2	1724.0	1701.0	1691.7	1709.2
167.5°	1743.1	1759.0	1734.6	1726.2	1743.6
170°	1762.9	1777.7	1753.3	1742.7	1760.2
172.5°	1776.1	1790.9	1766.5	1755.8	1767.9
175°	1790.4	1806.6	1782.2	1771.3	1778.1
177.5°	1796.8	1809.7	1790.2	1780.6	1795.7
180°	1794.6	1794.6	1794.6	1794.6	1794.6



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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	8.65	9.28	9.83	10.45	12.11	7.57	8.20	8.76	9.37	11.03
	3H	10.30	10.86	11.49	12.04	13.71	8.96	9.53	10.16	10.71	12.38
	4H	10.92	11.45	12.12	12.63	14.30	9.47	10.01	10.67	11.18	12.86
	6H	11.29	11.78	12.50	12.96	14.65	9.78	10.27	10.99	11.45	13.14
	8H	11.42	11.89	12.63	13.08	14.76	9.89	10.36	11.10	11.56	13.23
	12H	11.48	11.92	12.69	13.11	14.81	9.96	10.41	11.17	11.59	13.29
4H	2H	9.03	9.56	10.24	10.74	12.42	8.17	8.71	9.38	9.88	11.56
	3H	10.89	11.34	12.11	12.54	14.23	9.77	10.21	10.98	11.41	13.10
	4H	11.63	12.05	12.85	13.24	14.94	10.36	10.78	11.58	11.96	13.67
	6H	12.12	12.48	13.34	13.69	15.38	10.76	11.11	11.98	12.33	14.02
	8H	12.31	12.64	13.52	13.84	15.55	10.93	11.26	12.14	12.46	14.17
	12H	12.40	12.70	13.63	13.91	15.62	11.02	11.32	12.25	12.53	14.25
8H	4H	11.75	12.07	12.96	13.28	14.99	10.61	10.94	11.82	12.14	13.85
	6H	12.35	12.63	13.59	13.87	15.58	11.13	11.40	12.36	12.64	14.35
	8H	12.63	12.86	13.87	14.08	15.81	11.38	11.61	12.61	12.83	14.56
	12H	12.78	12.99	14.02	14.21	15.96	11.54	11.75	12.78	12.97	14.72
12H	4H	11.71	12.01	12.94	13.22	14.93	10.60	10.90	11.83	12.11	13.82
	6H	12.37	12.61	13.61	13.82	15.55	11.18	11.42	12.42	12.64	14.36
	8H	12.66	12.87	13.90	14.08	15.84	11.45	11.66	12.69	12.88	14.63