

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: P824339

Luminaire Tested: CB3-D-125U-030D-840-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824339
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-840-1D-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, 4000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6120.9 lumens
Efficiency: N/A
Efficacy: 133.6 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

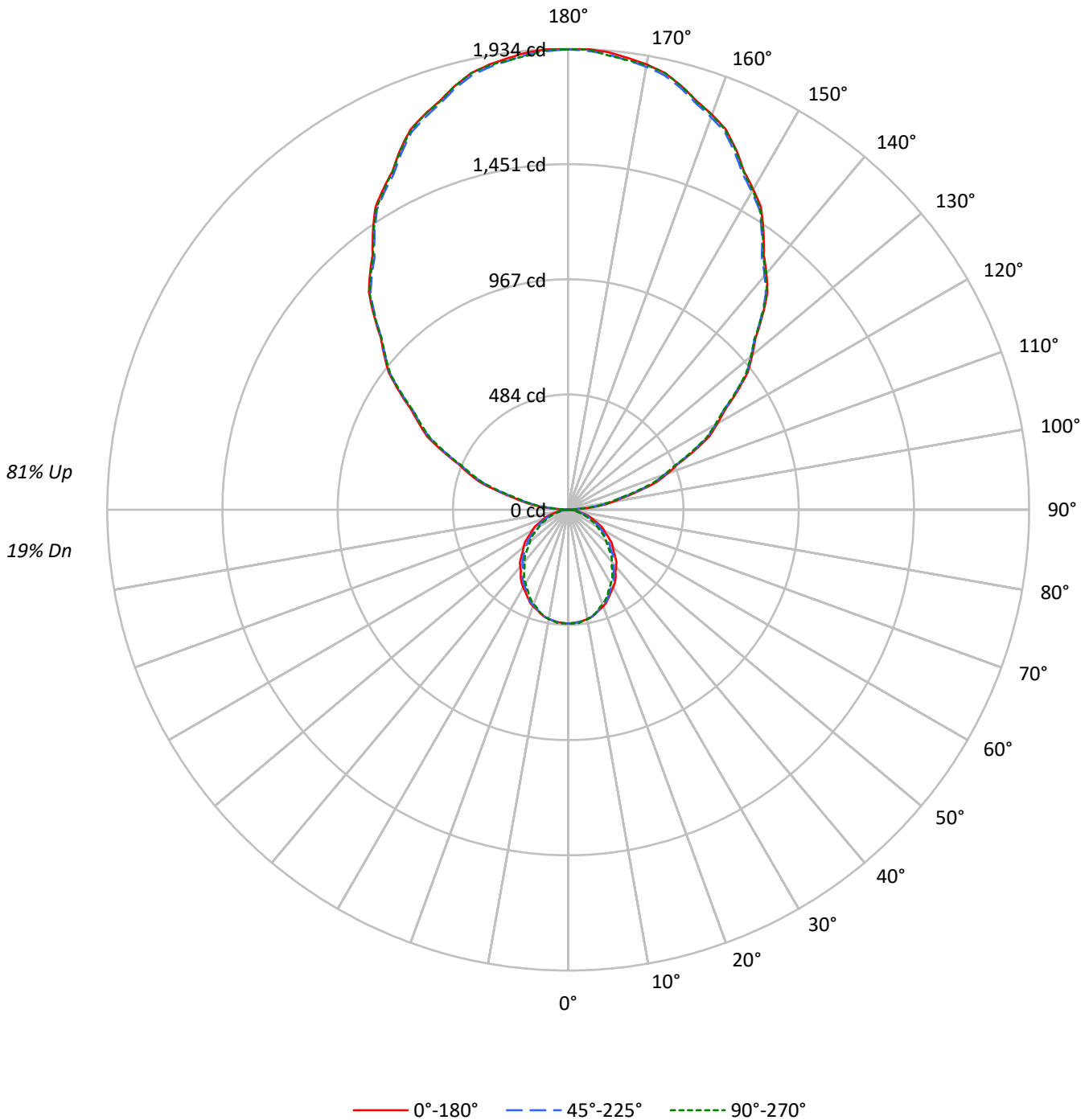
Input Watts (W): 45.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	5407	5407	5407
5°	5381	5386	5434
10°	5359	5350	5350
15°	5277	5277	5245
20°	5192	5139	5076
25°	5044	4980	4891
30°	4920	4792	4677
35°	4790	4613	4449
40°	4619	4399	4208
45°	4461	4207	3948
50°	4300	3978	3693
55°	4125	3758	3450
60°	3935	3530	3177
65°	3713	3272	2889
70°	3460	2967	2574
75°	3134	2605	2291
80°	2737	2183	2026
85°	2103	1843	1843

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4461 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	0.7
10°-20°	126.7	2.1
20°-30°	183.7	3.0
30°-40°	208.6	3.4
40°-50°	202.5	3.3
50°-60°	171.0	2.8
60°-70°	121.7	2.0
70°-80°	65.0	1.1
80°-90°	17.2	0.3
90°-100°	81.6	1.3
100°-110°	319.4	5.2
110°-120°	569.3	9.3
120°-130°	770.4	12.6
130°-140°	885.7	14.5
140°-150°	888.8	14.5
150°-160°	764.3	12.5
160°-170°	517.4	8.5
170°-180°	182.5	3.0
0°-30°	355.4	5.8
0°-40°	564.1	9.2
0°-60°	937.5	15.3
0°-90°	1141.3	18.6
90°-120°	970.4	15.9
90°-150°	3515.3	57.4
90°-180°	4980.0	81.4
0°-180°	6120.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	478	478	478	478	478	
5°	474	480	474	474	478	45
15°	450	454	450	448	448	127
25°	404	405	399	394	392	186
35°	347	344	334	324	322	216
45°	279	274	263	250	247	215
55°	209	204	190	178	175	187
65°	139	134	122	111	108	137
75°	72	68	60	53	52	76
85°	16	15	14	14	14	19
90°	0	0	0	0	0	4
95°	78	71	64	59	61	90
105°	310	308	298	293	290	330
115°	581	584	570	569	567	576
125°	865	875	858	855	856	774
135°	1153	1164	1145	1136	1148	889
145°	1428	1440	1416	1409	1422	892
155°	1667	1681	1653	1646	1664	767
165°	1840	1856	1831	1821	1840	518
175°	1927	1945	1918	1907	1914	183
180°	1932	1932	1932	1932	1932	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	477.9	477.9	477.9	477.9	477.9
2.5°	475.5	480.2	476.0	476.6	477.6
5°	473.8	479.8	474.2	473.6	478.4
7.5°	470.2	475.6	469.8	468.4	471.4
10°	466.4	472.4	465.7	464.1	465.7
12.5°	459.6	465.9	460.6	457.8	459.2
15°	450.5	454.5	450.5	447.8	447.8
17.5°	439.3	443.5	436.0	434.1	433.1
20°	431.2	434.9	426.8	424.1	421.6
22.5°	420.4	423.8	417.1	411.2	409.7
25°	404.0	405.3	398.9	393.5	391.8
27.5°	389.1	389.4	380.6	374.0	371.8
30°	376.6	376.9	366.8	359.7	358.0
32.5°	364.2	363.2	353.5	345.0	343.9
35°	346.8	343.5	334.0	324.1	322.1
37.5°	325.9	323.9	312.7	302.8	299.8
40°	312.7	309.3	297.8	287.9	284.9
42.5°	299.4	295.6	283.7	272.7	269.5
45°	278.8	274.5	262.9	250.3	246.7
47.5°	258.1	253.4	240.6	228.4	224.4
50°	244.3	239.3	226.0	214.1	209.8
52.5°	230.2	225.0	211.7	199.5	196.0
55°	209.1	203.5	190.5	178.2	174.9
57.5°	188.0	182.4	169.5	157.9	154.0
60°	173.9	168.6	156.0	144.4	140.4
62.5°	159.6	154.5	142.2	130.9	127.2
65°	138.7	133.8	122.2	111.2	107.9
67.5°	118.1	113.9	102.4	92.4	89.7
70°	104.6	100.6	89.7	80.5	77.8
72.5°	91.6	87.3	76.9	69.1	67.3
75°	71.7	67.8	59.6	53.4	52.4
77.5°	53.6	50.4	43.2	39.8	39.3
80°	42.0	39.0	33.5	31.1	31.1
82.5°	31.1	28.7	25.1	24.1	24.1
85°	16.2	14.9	14.2	14.2	14.2
87.5°	4.9	4.9	4.6	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	21.3	19.0	11.9	9.5	9.5
95°	78.5	71.3	63.7	59.3	60.7
97.5°	144.9	137.9	128.6	124.2	125.3
100°	191.1	185.3	174.8	170.4	170.4
102.5°	236.1	232.7	222.2	217.8	219.0
105°	309.6	308.2	297.8	293.3	290.4
107.5°	390.8	388.2	376.6	376.2	373.6
110°	443.0	441.5	431.1	429.6	428.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	496.3	498.3	486.8	485.3	483.8
115°	580.7	583.6	570.4	568.8	567.4
117.5°	667.2	671.3	657.2	655.6	653.0
120°	722.9	731.6	714.1	712.5	711.1
122.5°	779.8	787.4	770.9	768.3	768.0
125°	865.2	875.3	857.8	854.8	856.3
127.5°	950.5	960.9	944.6	938.7	941.9
130°	1007.4	1019.0	1001.5	995.6	1000.0
132.5°	1065.5	1077.1	1059.5	1053.8	1060.4
135°	1152.6	1164.2	1145.2	1136.5	1148.1
137.5°	1237.6	1247.7	1226.9	1221.0	1233.2
140°	1293.3	1303.4	1281.5	1274.4	1288.9
142.5°	1347.8	1359.1	1334.8	1327.7	1343.4
145°	1428.1	1439.7	1416.3	1409.2	1422.2
147.5°	1505.2	1517.0	1493.3	1485.0	1498.3
150°	1552.6	1565.6	1540.7	1533.6	1548.1
152.5°	1598.8	1613.0	1586.9	1578.7	1596.7
155°	1666.6	1681.1	1653.3	1646.3	1663.7
157.5°	1727.7	1741.0	1715.8	1708.8	1723.8
160°	1764.4	1778.9	1752.6	1745.5	1762.9
162.5°	1796.4	1810.9	1786.9	1777.5	1794.9
165°	1840.0	1855.9	1831.1	1821.1	1840.0
167.5°	1876.4	1893.5	1867.2	1858.2	1877.0
170°	1897.7	1913.7	1887.4	1875.9	1894.8
172.5°	1912.0	1927.9	1901.6	1890.0	1903.1
175°	1927.4	1944.8	1918.5	1906.8	1914.0
177.5°	1934.2	1948.1	1927.1	1916.8	1933.0
180°	1931.8	1931.8	1931.8	1931.8	1931.8



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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	8.90	9.53	10.09	10.70	12.36	7.82	8.46	9.01	9.62	11.28
	3H	10.55	11.12	11.75	12.29	13.97	9.22	9.79	10.41	10.96	12.63
	4H	11.17	11.71	12.37	12.88	14.56	9.73	10.26	10.93	11.44	13.12
	6H	11.54	12.04	12.75	13.22	14.90	10.03	10.53	11.24	11.70	13.39
	8H	11.67	12.15	12.89	13.34	15.02	10.15	10.62	11.36	11.81	13.49
	12H	11.73	12.18	12.95	13.37	15.07	10.22	10.66	11.43	11.85	13.55
4H	2H	9.28	9.82	10.49	10.99	12.67	8.42	8.96	9.63	10.14	11.81
	3H	11.15	11.60	12.36	12.80	14.49	10.02	10.47	11.23	11.67	13.36
	4H	11.89	12.30	13.10	13.49	15.20	10.62	11.03	11.83	12.22	13.92
	6H	12.38	12.73	13.60	13.94	15.64	11.02	11.37	12.23	12.58	14.27
	8H	12.57	12.90	13.78	14.10	15.81	11.18	11.51	12.40	12.71	14.42
	12H	12.65	12.95	13.88	14.16	15.88	11.28	11.58	12.51	12.79	14.50
8H	4H	12.00	12.33	13.22	13.53	15.24	10.86	11.19	12.08	12.39	14.10
	6H	12.61	12.88	13.85	14.13	15.83	11.38	11.65	12.61	12.90	14.60
	8H	12.89	13.12	14.12	14.34	16.07	11.63	11.87	12.87	13.09	14.81
	12H	13.04	13.25	14.28	14.46	16.22	11.80	12.00	13.04	13.22	14.98
12H	4H	11.96	12.26	13.19	13.47	15.19	10.85	11.15	12.08	12.36	14.08
	6H	12.63	12.86	13.86	14.08	15.81	11.44	11.67	12.67	12.89	14.62
	8H	12.92	13.12	14.16	14.34	16.10	11.71	11.91	12.95	13.13	14.89