

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: P824338

Luminaire Tested: CB3-D-125U-030D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824338
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-835-1D-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, 3500K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6203.6 lumens
Efficiency: N/A
Efficacy: 135.4 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

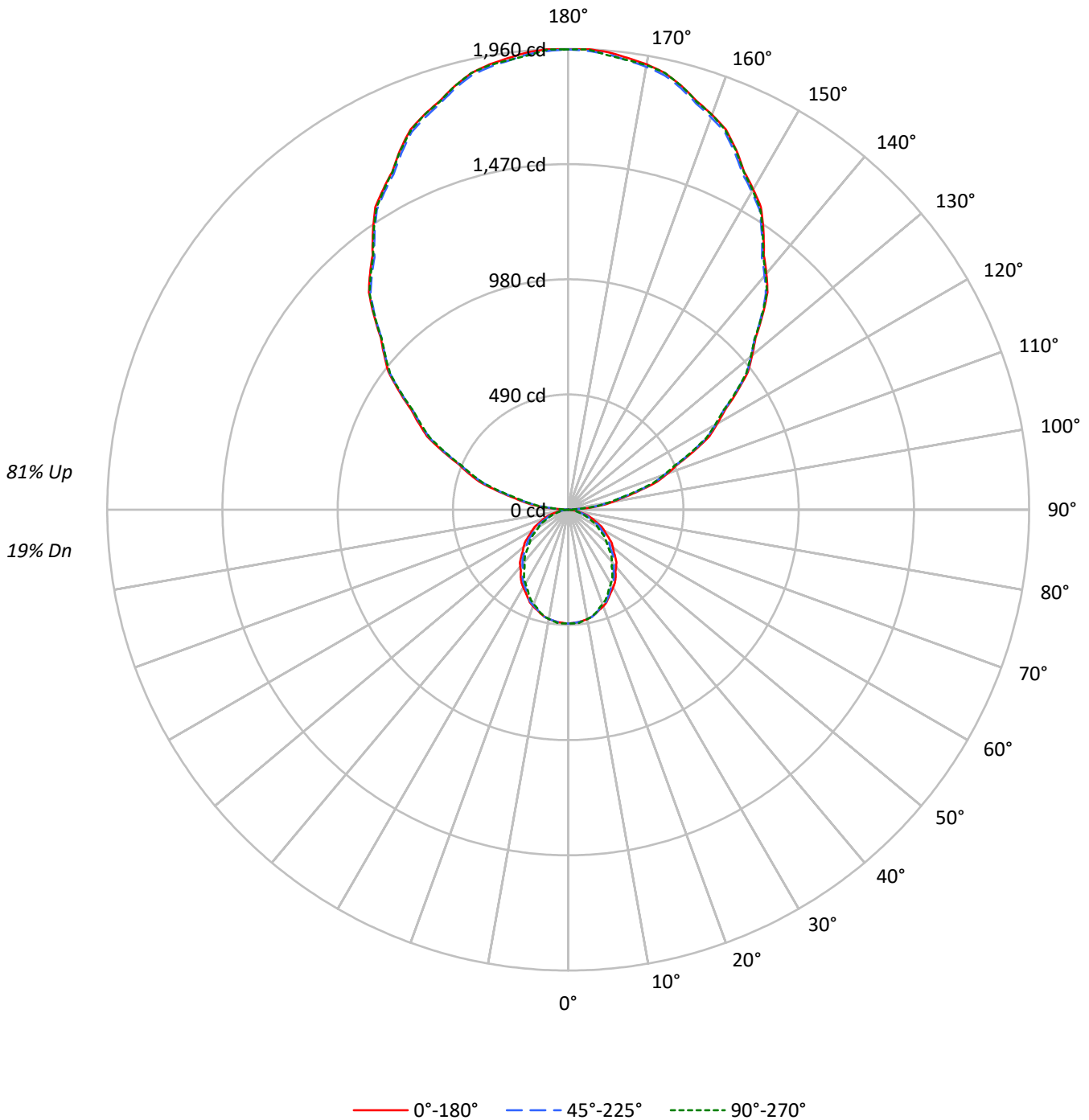
Input Watts (W): 45.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5481	5481	5481
5°	5454	5459	5506
10°	5431	5423	5423
15°	5348	5348	5316
20°	5262	5209	5145
25°	5112	5047	4957
30°	4987	4858	4740
35°	4855	4676	4510
40°	4681	4458	4266
45°	4522	4264	4000
50°	4358	4033	3742
55°	4180	3809	3497
60°	3990	3578	3220
65°	3764	3314	2929
70°	3507	3007	2610
75°	3178	2640	2326
80°	2769	2215	2059
85°	2142	1869	1869

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4522 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.7	0.7
10°-20°	128.4	2.1
20°-30°	186.1	3.0
30°-40°	211.4	3.4
40°-50°	205.2	3.3
50°-60°	173.3	2.8
60°-70°	123.3	2.0
70°-80°	65.9	1.1
80°-90°	17.4	0.3
90°-100°	82.7	1.3
100°-110°	323.7	5.2
110°-120°	577.0	9.3
120°-130°	780.8	12.6
130°-140°	897.7	14.5
140°-150°	900.8	14.5
150°-160°	774.7	12.5
160°-170°	524.4	8.5
170°-180°	184.9	3.0
0°-30°	360.2	5.8
0°-40°	571.7	9.2
0°-60°	950.2	15.3
0°-90°	1156.8	18.6
90°-120°	983.5	15.9
90°-150°	3562.8	57.4
90°-180°	5047.0	81.4
0°-180°	6203.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	484	484	484	484	484	
5°	480	486	481	480	485	46
15°	457	461	457	454	454	129
25°	410	411	404	399	397	189
35°	352	348	338	328	326	219
45°	283	278	266	254	250	218
55°	212	206	193	181	177	189
65°	141	136	124	113	109	139
75°	73	69	60	54	53	78
85°	16	15	14	14	14	20
90°	0	0	0	0	0	4
95°	80	72	65	60	62	91
105°	314	312	302	297	294	335
115°	589	592	578	576	575	583
125°	877	887	869	866	868	784
135°	1168	1180	1161	1152	1164	901
145°	1447	1459	1435	1428	1441	904
155°	1689	1704	1676	1668	1686	777
165°	1865	1881	1856	1846	1865	525
175°	1953	1971	1944	1933	1940	185
180°	1958	1958	1958	1958	1958	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	484.4	484.4	484.4	484.4	484.4
2.5°	481.9	486.7	482.4	483.0	484.1
5°	480.2	486.3	480.6	480.0	484.8
7.5°	476.5	482.0	476.1	474.8	477.8
10°	472.7	478.7	472.0	470.3	472.0
12.5°	465.8	472.2	466.8	464.0	465.4
15°	456.6	460.6	456.6	453.8	453.8
17.5°	445.3	449.5	441.9	440.0	438.9
20°	437.0	440.7	432.6	429.8	427.3
22.5°	426.1	429.5	422.7	416.8	415.2
25°	409.5	410.8	404.3	398.8	397.1
27.5°	394.3	394.7	385.7	379.0	376.8
30°	381.7	382.0	371.8	364.5	362.8
32.5°	369.1	368.1	358.3	349.7	348.6
35°	351.5	348.2	338.5	328.5	326.5
37.5°	330.3	328.3	316.9	306.9	303.8
40°	316.9	313.5	301.8	291.8	288.8
42.5°	303.4	299.5	287.5	276.4	273.1
45°	282.6	278.2	266.5	253.7	250.0
47.5°	261.6	256.8	243.9	231.5	227.4
50°	247.6	242.6	229.1	217.0	212.6
52.5°	233.3	228.0	214.5	202.2	198.6
55°	211.9	206.2	193.1	180.7	177.3
57.5°	190.5	184.9	171.8	160.1	156.0
60°	176.3	170.9	158.1	146.3	142.3
62.5°	161.7	156.6	144.1	132.6	128.9
65°	140.6	135.6	123.8	112.8	109.4
67.5°	119.7	115.4	103.8	93.6	90.9
70°	106.0	101.9	90.9	81.6	78.9
72.5°	92.8	88.5	78.0	70.1	68.2
75°	72.7	68.7	60.4	54.2	53.2
77.5°	54.3	51.0	43.8	40.3	39.8
80°	42.5	39.5	34.0	31.6	31.6
82.5°	31.6	29.1	25.4	24.4	24.4
85°	16.5	15.1	14.4	14.4	14.4
87.5°	4.9	4.9	4.7	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	21.6	19.3	12.0	9.6	9.6
95°	79.6	72.2	64.6	60.1	61.6
97.5°	146.8	139.8	130.3	125.8	127.0
100°	193.7	187.8	177.2	172.7	172.7
102.5°	239.3	235.8	225.2	220.7	221.9
105°	313.8	312.3	301.8	297.2	294.3
107.5°	396.1	393.4	381.7	381.3	378.7
110°	448.9	447.5	436.9	435.4	433.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	503.0	505.0	493.4	491.8	490.4
115°	588.6	591.5	578.1	576.5	575.1
117.5°	676.3	680.4	666.1	664.5	661.8
120°	732.7	741.5	723.7	722.2	720.7
122.5°	790.4	798.0	781.4	778.7	778.4
125°	876.9	887.1	869.4	866.4	867.8
127.5°	963.3	973.9	957.3	951.4	954.6
130°	1021.0	1032.7	1015.0	1009.1	1013.5
132.5°	1079.9	1091.6	1073.9	1068.0	1074.8
135°	1168.1	1179.9	1160.6	1151.9	1163.6
137.5°	1254.3	1264.6	1243.5	1237.5	1249.8
140°	1310.8	1321.1	1298.8	1291.6	1306.3
142.5°	1366.0	1377.5	1352.8	1345.7	1361.5
145°	1447.4	1459.2	1435.4	1428.2	1441.4
147.5°	1525.5	1537.5	1513.5	1505.1	1518.6
150°	1573.5	1586.8	1561.5	1554.4	1569.0
152.5°	1620.4	1634.8	1608.4	1600.1	1618.3
155°	1689.2	1703.8	1675.6	1668.5	1686.2
157.5°	1751.0	1764.5	1739.0	1731.8	1747.1
160°	1788.3	1802.9	1776.2	1769.1	1786.7
162.5°	1820.7	1835.4	1811.1	1801.6	1819.2
165°	1864.8	1881.0	1855.8	1845.7	1864.8
167.5°	1901.8	1919.1	1892.5	1883.3	1902.4
170°	1923.4	1939.5	1912.9	1901.3	1920.4
172.5°	1937.8	1953.9	1927.3	1915.6	1928.8
175°	1953.4	1971.0	1944.4	1932.6	1939.9
177.5°	1960.3	1974.4	1953.1	1942.7	1959.1
180°	1957.9	1957.9	1957.9	1957.9	1957.9

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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	8.95	9.58	10.14	10.75	12.41	7.87	8.50	9.06	9.67	11.33
	3H	10.60	11.16	11.79	12.34	14.01	9.27	9.83	10.46	11.01	12.68
	4H	11.22	11.76	12.42	12.93	14.61	9.77	10.31	10.98	11.49	13.16
	6H	11.59	12.09	12.80	13.26	14.95	10.08	10.58	11.29	11.75	13.44
	8H	11.72	12.19	12.93	13.38	15.06	10.20	10.67	11.41	11.86	13.54
	12H	11.78	12.23	12.99	13.41	15.11	10.26	10.71	11.48	11.90	13.60
4H	2H	9.33	9.87	10.54	11.04	12.72	8.47	9.01	9.68	10.18	11.86
	3H	11.20	11.65	12.41	12.85	14.53	10.07	10.52	11.28	11.72	13.40
	4H	11.94	12.35	13.15	13.54	15.24	10.67	11.08	11.88	12.27	13.97
	6H	12.42	12.78	13.64	13.99	15.68	11.07	11.42	12.28	12.63	14.32
	8H	12.61	12.94	13.83	14.14	15.85	11.23	11.56	12.45	12.76	14.47
	12H	12.70	13.00	13.93	14.21	15.92	11.32	11.62	12.56	12.84	14.55
8H	4H	12.05	12.38	13.26	13.58	15.29	10.91	11.24	12.12	12.44	14.15
	6H	12.66	12.93	13.89	14.17	15.88	11.43	11.70	12.66	12.94	14.65
	8H	12.93	13.17	14.17	14.39	16.11	11.68	11.91	12.92	13.13	14.86
	12H	13.09	13.29	14.33	14.51	16.27	11.84	12.05	13.09	13.27	15.03
12H	4H	12.01	12.31	13.24	13.52	15.24	10.90	11.20	12.13	12.41	14.13
	6H	12.67	12.91	13.91	14.13	15.86	11.48	11.72	12.72	12.94	14.67
	8H	12.96	13.17	14.20	14.39	16.14	11.76	11.96	13.00	13.18	14.94