

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: P824340

Luminaire Tested: CB3-D-125U-055D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824340
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-055D-830-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
3-INCH APERTURE
DOWNLIGHT 550 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: 6650.6 lumens
Efficiency: N/A
Efficacy: 123.6 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

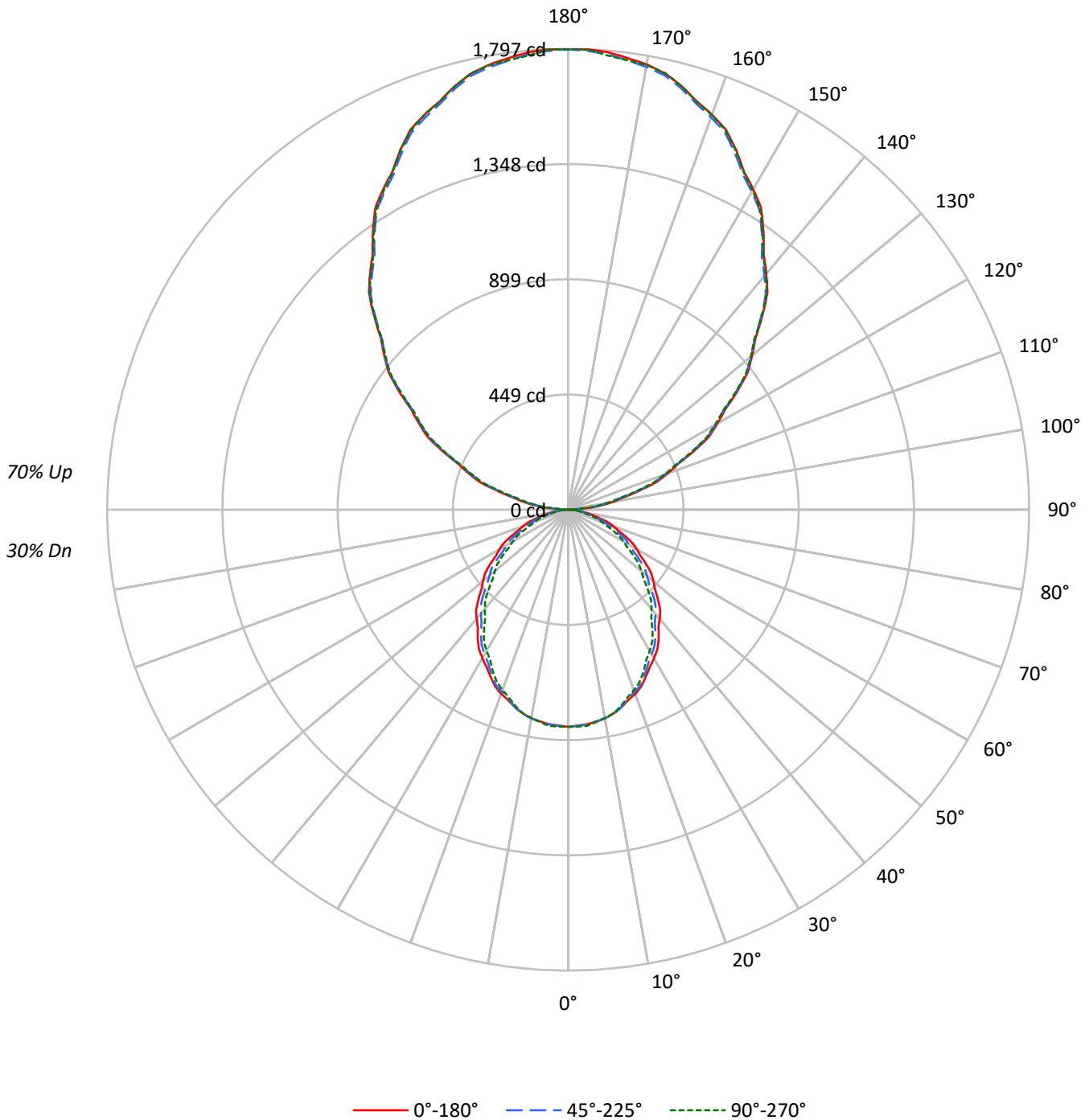
Input Watts (W): 53.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	102	102	102	102	92	92	92	92	72	72	72	55	55	55	38	38	38	30				
1	94	89	86	82	84	80	77	74	64	61	60	48	47	46	34	33	32	26				
2	85	78	72	67	76	70	65	61	56	52	49	42	40	38	30	29	27	22				
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	23	19				
4	71	61	53	47	64	55	48	43	44	39	35	33	30	28	24	22	20	16				
5	65	54	46	41	58	49	42	37	39	34	31	30	27	24	21	19	18	14				
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	19	17	16	12				
7	55	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14	11				
8	51	39	32	27	46	36	29	25	29	24	21	22	19	16	16	14	12	10				
9	48	36	29	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9				
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9582	9582	9582
5°	9537	9544	9613
10°	9495	9481	9481
15°	9350	9350	9294
20°	9199	9105	9009
25°	8951	8839	8682
30°	8731	8504	8300
35°	8502	8187	7897
40°	8194	7805	7468
45°	7917	7466	7005
50°	7632	7060	6553
55°	7320	6669	6125
60°	6986	6264	5639
65°	6591	5804	5130
70°	6140	5263	4569
75°	5565	4621	4070
80°	4854	3870	3597
85°	3739	3271	3271

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7917 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	1.2
10°-20°	224.5	3.4
20°-30°	325.8	4.9
30°-40°	370.2	5.6
40°-50°	359.4	5.4
50°-60°	303.4	4.6
60°-70°	215.9	3.2
70°-80°	115.4	1.7
80°-90°	30.5	0.5
90°-100°	75.8	1.1
100°-110°	296.7	4.5
110°-120°	528.9	8.0
120°-130°	715.7	10.8
130°-140°	822.8	12.4
140°-150°	825.6	12.4
150°-160°	710.0	10.7
160°-170°	480.6	7.2
170°-180°	169.5	2.5
0°-30°	630.2	9.5
0°-40°	1000.4	15.0
0°-60°	1663.2	25.0
0°-90°	2024.9	30.4
90°-120°	901.4	13.6
90°-150°	3265.5	49.1
90°-180°	4626.0	69.6
0°-180°	6650.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	847	847	847	847	847	
5°	840	850	840	839	846	80
15°	798	805	798	793	793	225
25°	717	719	708	698	695	331
35°	616	610	593	575	572	384
45°	495	487	467	444	438	382
55°	371	361	338	316	310	332
65°	246	237	217	197	192	244
75°	127	120	106	95	93	136
85°	29	26	25	25	25	34
90°	0	0	0	0	0	4
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°	846.9	846.9	846.9	846.9	846.9
2.5°	842.5	851.0	843.5	844.5	846.4
5°	839.7	850.2	840.3	839.2	846.4
7.5°	833.2	842.8	832.4	830.0	835.3
10°	826.4	837.0	825.2	822.3	825.2
12.5°	814.4	825.5	816.1	811.2	813.7
15°	798.2	805.3	798.2	793.4	793.4
17.5°	778.4	785.8	772.5	769.1	767.6
20°	764.0	770.5	756.2	751.3	748.2
22.5°	744.8	750.8	738.9	729.6	727.1
25°	717.0	719.3	708.0	698.3	695.4
27.5°	690.4	691.0	675.4	663.7	659.8
30°	668.3	668.9	650.9	638.3	635.3
32.5°	646.2	644.5	627.4	612.3	610.3
35°	615.5	609.6	592.7	575.2	571.7
37.5°	578.4	574.9	554.8	537.3	532.0
40°	554.8	549.0	528.4	510.9	505.6
42.5°	531.3	524.5	503.4	484.0	478.2
45°	494.8	487.2	466.6	444.2	437.8
47.5°	458.1	449.7	427.1	405.4	398.2
50°	433.6	424.7	401.1	379.9	372.3
52.5°	408.6	399.3	375.7	354.0	347.8
55°	371.1	361.1	338.1	316.3	310.5
57.5°	333.6	323.8	300.8	280.3	273.2
60°	308.7	299.3	276.8	256.2	249.2
62.5°	283.2	274.3	252.3	232.2	225.7
65°	246.2	237.4	216.8	197.4	191.6
67.5°	209.6	202.1	181.7	163.9	159.2
70°	185.6	178.5	159.1	142.8	138.1
72.5°	162.5	155.0	136.6	122.7	119.4
75°	127.3	120.3	105.7	94.8	93.1
77.5°	95.1	89.4	76.7	70.6	69.7
80°	74.5	69.2	59.4	55.2	55.2
82.5°	55.2	50.9	44.6	42.8	42.8
85°	28.8	26.5	25.2	25.2	25.2
87.5°	8.6	8.6	8.2	7.7	7.7
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	12.84	13.54	13.95	14.65	16.17	11.76	12.46	12.87	13.57	15.09
	3H	14.49	15.12	15.61	16.24	17.78	13.16	13.79	14.28	14.90	16.45
	4H	15.12	15.71	16.24	16.83	18.38	13.67	14.27	14.80	15.38	16.93
	6H	15.49	16.04	16.63	17.16	18.72	13.98	14.53	15.12	15.65	17.21
	8H	15.63	16.15	16.77	17.28	18.83	14.10	14.62	15.24	15.75	17.31
	12H	15.69	16.18	16.83	17.31	18.88	14.17	14.66	15.31	15.79	17.37
4H	2H	13.23	13.82	14.36	14.94	16.49	12.37	12.97	13.50	14.08	15.63
	3H	15.10	15.60	16.24	16.74	18.30	13.97	14.47	15.11	15.61	17.17
	4H	15.84	16.30	16.99	17.43	19.01	14.57	15.03	15.72	16.16	17.74
	6H	16.34	16.73	17.49	17.88	19.45	14.97	15.37	16.13	16.52	18.09
	8H	16.53	16.89	17.68	18.03	19.62	15.14	15.51	16.29	16.65	18.24
	12H	16.61	16.95	17.78	18.10	19.69	15.24	15.57	16.41	16.73	18.32
8H	4H	15.96	16.33	17.11	17.47	19.06	14.82	15.19	15.97	16.33	17.92
	6H	16.57	16.88	17.74	18.06	19.65	15.34	15.64	16.51	16.83	18.41
	8H	16.85	17.11	18.02	18.28	19.88	15.59	15.86	16.77	17.02	18.63
	12H	17.00	17.24	18.18	18.40	20.04	15.76	15.99	16.94	17.16	18.79
12H	4H	15.93	16.26	17.09	17.41	19.01	14.82	15.15	15.98	16.30	17.89
	6H	16.59	16.85	17.77	18.02	19.62	15.40	15.66	16.57	16.83	18.43
	8H	16.88	17.11	18.06	18.27	19.91	15.67	15.90	16.85	17.07	18.71