

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: P824311

Luminaire Tested: CB3-D-085U-120D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824311
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-085U-120D-835-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
3-INCH APERTURE
DOWNLIGHT 1200 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 80 CRI, 3500K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8160.4 lumens
Efficiency: N/A
Efficacy: 131.6 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: General Diffuse

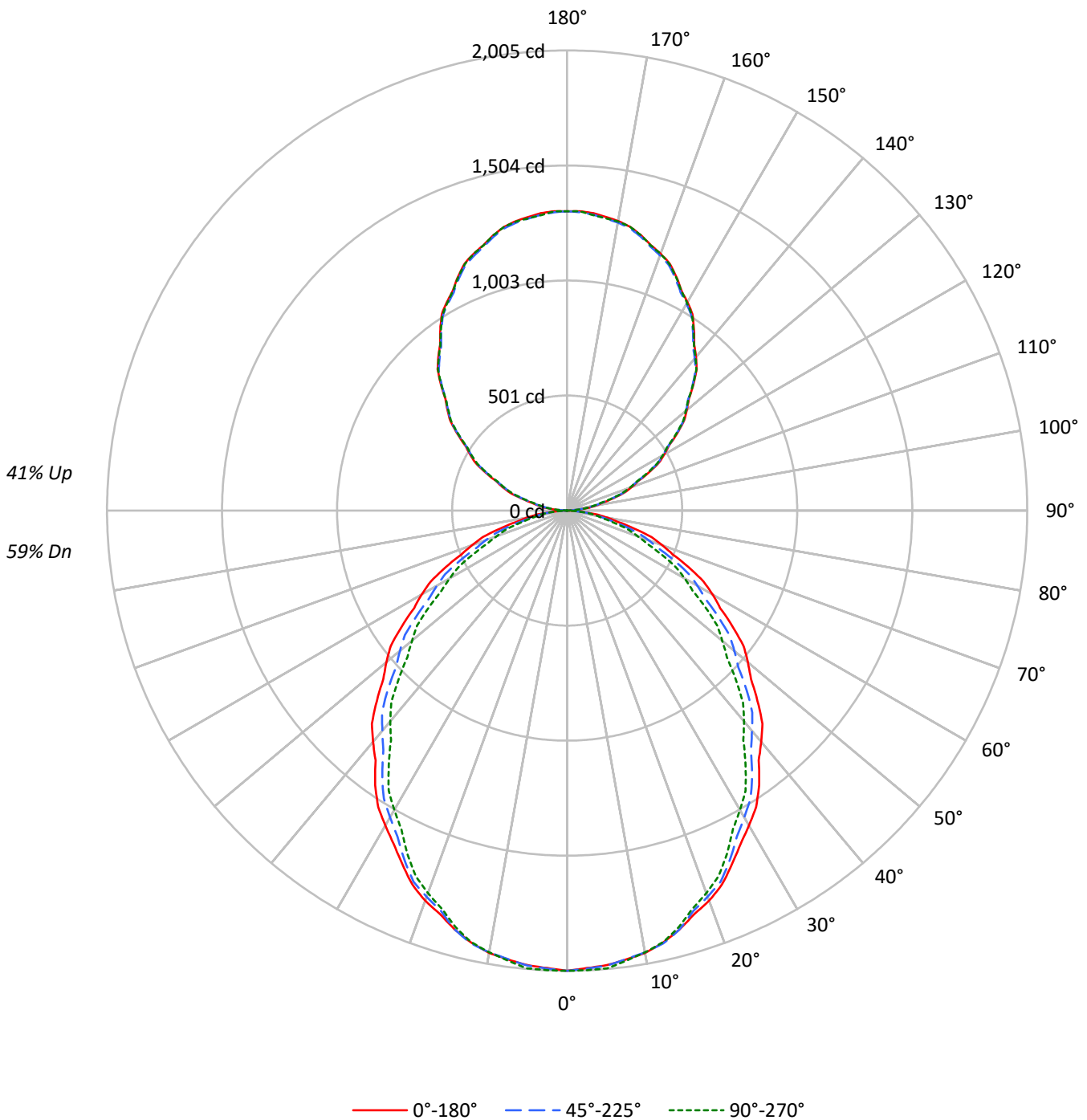
Input Watts (W): 62
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59			
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	57	56	55	50			
2	91	84	78	73	85	78	73	69	68	64	61	59	56	53	51	48	46	42			
3	83	74	67	61	78	69	63	58	61	55	51	52	49	45	45	42	40	36			
4	76	66	58	52	71	62	54	49	54	48	44	47	43	39	40	37	34	31			
5	70	59	50	44	65	55	48	42	48	43	38	42	38	34	36	33	30	27			
6	65	53	45	39	60	50	42	37	44	38	33	38	34	30	33	29	27	24			
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	30	27	24	21			
8	56	43	36	30	52	41	34	29	36	31	26	32	27	24	28	24	21	19			
9	52	40	32	27	49	38	31	26	33	28	24	29	25	21	26	22	19	17			
10	49	36	29	24	45	35	28	23	31	25	21	27	23	20	24	20	18	16			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22690	22690	22690
5°	22583	22599	22739
10°	22484	22451	22451
15°	22140	22140	22007
20°	21780	21558	21357
25°	21219	20954	20580
30°	20700	20161	19677
35°	20154	19407	18719
40°	19429	18503	17703
45°	18769	17699	16606
50°	18092	16738	15536
55°	17355	15811	14519
60°	16558	14852	13369
65°	15627	13758	12157
70°	14553	12478	10831
75°	13194	10951	9648
80°	11500	9181	8536
85°	8867	7763	7763

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18769 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	2.3
10°-20°	531.6	6.5
20°-30°	772.0	9.5
30°-40°	877.6	10.8
40°-50°	852.0	10.4
50°-60°	719.3	8.8
60°-70°	511.8	6.3
70°-80°	273.4	3.4
80°-90°	72.2	0.9
90°-100°	55.1	0.7
100°-110°	215.6	2.6
110°-120°	384.3	4.7
120°-130°	520.0	6.4
130°-140°	597.9	7.3
140°-150°	599.9	7.4
150°-160°	515.9	6.3
160°-170°	349.2	4.3
170°-180°	123.2	1.5
0°-30°	1492.8	18.3
0°-40°	2370.5	29.0
0°-60°	3941.7	48.3
0°-90°	4799.2	58.8
90°-120°	655.0	8.0
90°-150°	2372.9	29.1
90°-180°	3361.0	41.2
0°-180°	8160.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2005	2005	2005	2005	2005	
5°	1988	2013	1990	1987	2002	189
15°	1890	1907	1890	1879	1879	532
25°	1700	1705	1678	1655	1648	783
35°	1459	1445	1405	1364	1355	909
45°	1173	1155	1106	1053	1038	905
55°	880	856	802	750	736	787
65°	584	563	514	468	454	578
75°	302	285	250	225	221	322
85°	68	63	60	60	60	81
90°	0	0	0	0	0	5
95°	53	48	43	40	41	60
105°	209	208	201	198	196	223
115°	392	394	385	384	383	389
125°	584	591	579	577	578	522
135°	778	786	773	767	775	600
145°	964	972	956	951	960	602
155°	1125	1135	1116	1111	1123	517
165°	1242	1253	1236	1229	1242	350
175°	1301	1313	1295	1287	1292	123
180°	1304	1304	1304	1304	1304	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2005.4	2005.4	2005.4	2005.4	2005.4
2.5°	1995.1	2015.2	1997.4	1999.8	2004.2
5°	1988.3	2013.3	1989.7	1987.2	2002.1
7.5°	1972.9	1995.7	1971.2	1965.5	1978.0
10°	1957.0	1982.0	1954.1	1947.2	1954.1
12.5°	1928.5	1954.7	1932.5	1920.9	1926.8
15°	1890.1	1906.8	1890.1	1878.7	1878.7
17.5°	1843.1	1860.6	1829.1	1821.1	1817.8
20°	1808.9	1824.2	1790.4	1778.9	1773.7
22.5°	1763.4	1777.6	1749.4	1729.1	1723.6
25°	1699.7	1705.3	1678.4	1655.4	1648.5
27.5°	1636.8	1638.2	1601.2	1573.4	1564.2
30°	1584.4	1585.8	1543.1	1513.1	1506.1
32.5°	1532.0	1527.9	1487.3	1451.6	1446.9
35°	1459.1	1445.2	1405.0	1363.6	1355.2
37.5°	1371.2	1362.8	1315.4	1273.8	1261.3
40°	1315.4	1301.4	1252.7	1211.2	1198.6
42.5°	1259.6	1243.4	1193.5	1147.4	1133.7
45°	1173.0	1154.9	1106.1	1053.1	1037.8
47.5°	1085.9	1066.1	1012.4	961.1	944.1
50°	1027.8	1006.9	950.9	900.7	882.6
52.5°	968.6	946.6	890.6	839.3	824.5
55°	879.8	856.1	801.5	749.9	736.0
57.5°	790.9	767.5	713.2	664.4	647.7
60°	731.7	709.4	656.3	607.5	590.8
62.5°	671.3	650.2	598.2	550.6	535.0
65°	583.7	562.8	513.9	468.0	454.1
67.5°	496.8	479.0	430.8	388.7	377.5
70°	439.9	423.2	377.2	338.6	327.4
72.5°	385.2	367.4	323.7	290.8	283.0
75°	301.8	285.1	250.5	224.8	220.7
77.5°	225.5	211.8	181.9	167.4	165.1
80°	176.5	164.0	140.9	131.0	131.0
82.5°	131.0	120.7	105.6	101.4	101.4
85°	68.3	62.8	59.8	59.8	59.8
87.5°	20.5	20.5	19.4	18.2	18.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.4	12.8	8.0	6.4	6.4
95°	53.0	48.1	43.0	40.0	41.0
97.5°	97.8	93.1	86.8	83.8	84.6
100°	129.0	125.1	118.0	115.0	115.0
102.5°	159.4	157.1	150.0	147.0	147.8
105°	209.0	208.0	201.0	198.0	196.0
107.5°	263.8	262.0	254.2	254.0	252.2
110°	299.0	298.0	291.0	290.0	289.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	335.0	336.4	328.6	327.6	326.6
115°	392.0	394.0	385.0	384.0	383.0
117.5°	450.4	453.1	443.6	442.6	440.8
120°	488.0	493.9	482.0	481.0	480.0
122.5°	526.4	531.5	520.4	518.6	518.4
125°	584.0	590.8	579.0	577.0	578.0
127.5°	641.6	648.6	637.6	633.6	635.8
130°	680.0	687.8	676.0	672.1	675.0
132.5°	719.2	727.0	715.2	711.3	715.8
135°	778.0	785.8	773.0	767.2	775.0
137.5°	835.4	842.2	828.2	824.2	832.4
140°	873.0	879.8	865.0	860.2	870.0
142.5°	909.8	917.4	901.0	896.2	906.8
145°	964.0	971.8	956.0	951.2	960.0
147.5°	1016.0	1024.0	1008.0	1002.4	1011.4
150°	1048.0	1056.8	1040.0	1035.2	1045.0
152.5°	1079.2	1088.8	1071.2	1065.7	1077.8
155°	1125.0	1134.8	1116.0	1111.3	1123.0
157.5°	1166.2	1175.2	1158.2	1153.4	1163.6
160°	1191.0	1200.8	1183.0	1178.3	1190.0
162.5°	1212.6	1222.4	1206.2	1199.9	1211.6
165°	1242.0	1252.8	1236.0	1229.3	1242.0
167.5°	1266.6	1278.1	1260.4	1254.3	1267.0
170°	1281.0	1291.8	1274.0	1266.3	1279.0
172.5°	1290.6	1301.4	1283.6	1275.8	1284.6
175°	1301.0	1312.7	1295.0	1287.1	1292.0
177.5°	1305.6	1315.0	1300.8	1293.8	1304.8
180°	1304.0	1304.0	1304.0	1304.0	1304.0

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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	18.77	19.70	19.65	20.60	21.74	17.69	18.63	18.57	19.53	20.67
	3H	20.44	21.28	21.34	22.19	23.35	19.11	19.95	20.00	20.86	22.02
	4H	21.08	21.87	21.99	22.78	23.96	19.63	20.42	20.54	21.34	22.51
	6H	21.47	22.19	22.39	23.12	24.30	19.95	20.68	20.87	21.60	22.79
	8H	21.61	22.30	22.53	23.24	24.42	20.08	20.77	21.01	21.71	22.90
	12H	21.68	22.34	22.61	23.27	24.48	20.16	20.82	21.09	21.75	22.96
4H	2H	19.19	19.98	20.10	20.89	22.07	18.33	19.12	19.24	20.03	21.21
	3H	21.08	21.74	22.01	22.69	23.88	19.96	20.61	20.88	21.56	22.75
	4H	21.84	22.44	22.77	23.38	24.59	20.56	21.17	21.50	22.11	23.32
	6H	22.34	22.86	23.29	23.82	25.04	20.98	21.50	21.93	22.46	23.68
	8H	22.54	23.02	23.49	23.98	25.21	21.15	21.64	22.10	22.59	23.82
	12H	22.64	23.07	23.61	24.05	25.28	21.26	21.70	22.23	22.67	23.91
8H	4H	21.97	22.45	22.92	23.41	24.64	20.83	21.32	21.78	22.27	23.50
	6H	22.59	22.99	23.57	23.99	25.22	21.36	21.76	22.34	22.76	23.99
	8H	22.87	23.22	23.85	24.21	25.46	21.62	21.97	22.60	22.96	24.21
	12H	23.04	23.35	24.02	24.33	25.62	21.80	22.11	22.78	23.09	24.38
12H	4H	21.95	22.38	22.92	23.36	24.59	20.84	21.27	21.81	22.25	23.48
	6H	22.61	22.96	23.59	23.95	25.20	21.42	21.77	22.41	22.76	24.01
	8H	22.91	23.22	23.90	24.21	25.50	21.71	22.02	22.69	23.00	24.29