

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: P824303

Luminaire Tested: CB3-D-085U-030D-840-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824303
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-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 850 LUMENS PER FOOT
Light Source: 80 CRI, 4000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4457.5 lumens
Efficiency: N/A
Efficacy: 137.6 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

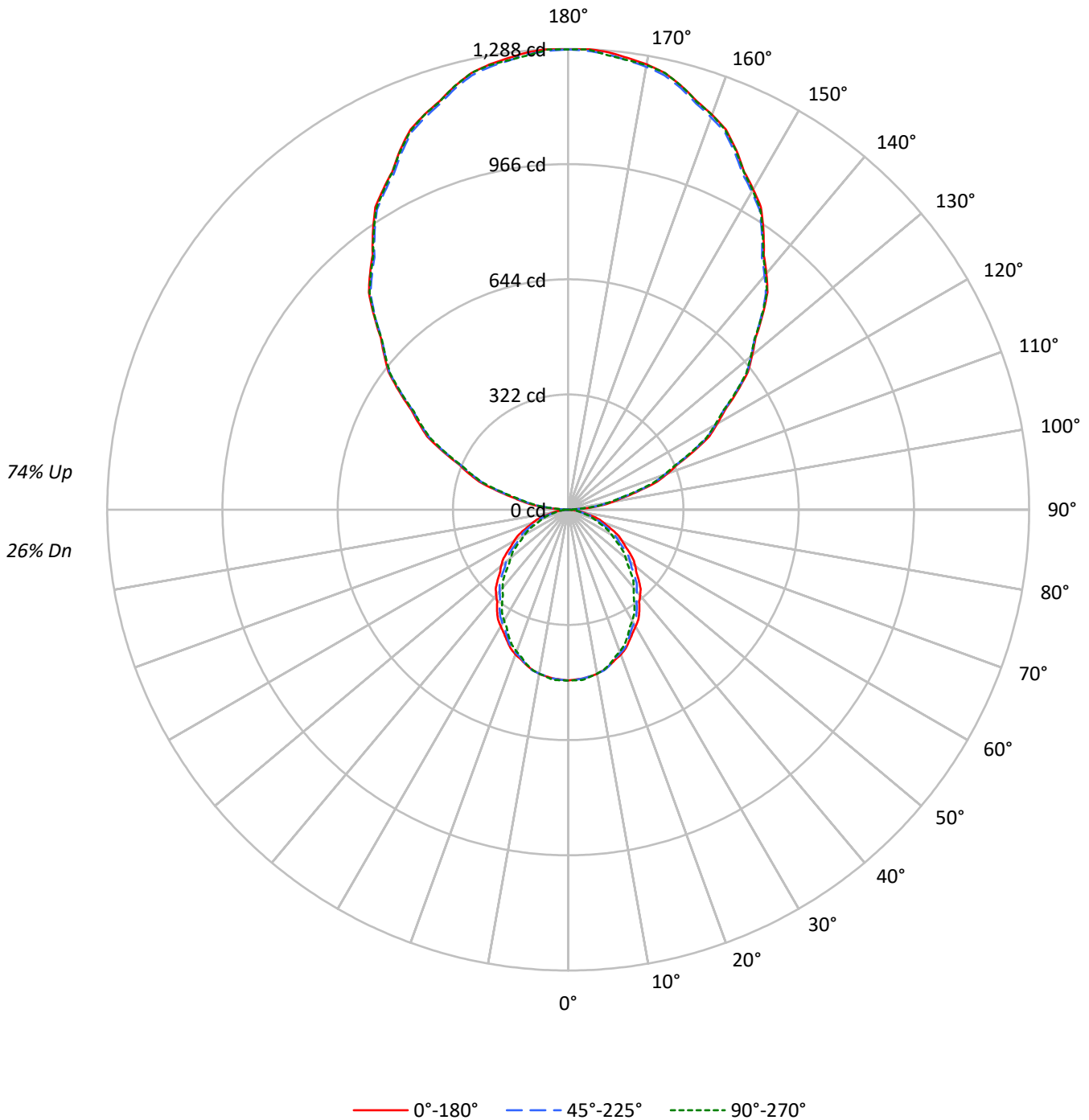
Input Watts (W): 32.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26				
1	92	88	85	81	82	79	76	73	61	59	57	45	44	42	30	29	29	22				
2	84	77	71	66	75	69	64	60	54	50	47	39	37	36	26	25	24	18				
3	77	68	61	55	68	61	55	50	47	43	40	35	32	30	23	22	21	16				
4	70	60	52	47	62	54	47	42	42	38	34	31	28	26	21	19	18	14				
5	64	53	46	40	57	48	41	36	38	33	29	28	25	22	19	17	16	12				
6	59	48	40	34	53	43	36	31	34	29	25	25	22	19	17	15	14	10				
7	55	43	35	30	49	39	32	27	30	26	22	23	20	17	16	14	12	9				
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	14	12	11	8				
9	47	35	28	23	42	32	26	21	25	21	17	19	16	14	13	11	10	8				
10	44	32	25	21	39	29	23	19	23	19	16	18	14	12	12	10	9	7				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5402	5402	5402
5°	5377	5380	5422
10°	5353	5345	5345
15°	5271	5271	5240
20°	5186	5133	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°	45.0	1.0
10°-20°	126.6	2.8
20°-30°	183.6	4.1
30°-40°	208.6	4.7
40°-50°	202.5	4.5
50°-60°	171.0	3.8
60°-70°	121.7	2.7
70°-80°	65.0	1.5
80°-90°	17.2	0.4
90°-100°	54.4	1.2
100°-110°	212.7	4.8
110°-120°	379.2	8.5
120°-130°	513.1	11.5
130°-140°	589.9	13.2
140°-150°	591.9	13.3
150°-160°	509.1	11.4
160°-170°	344.6	7.7
170°-180°	121.5	2.7
0°-30°	355.2	8.0
0°-40°	563.8	12.6
0°-60°	937.3	21.0
0°-90°	1141.1	25.6
90°-120°	646.3	14.5
90°-150°	2341.3	52.5
90°-180°	3316.0	74.4
0°-180°	4457.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	477	477	477	477	477	
5°	473	479	474	473	477	45
15°	450	454	450	447	447	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	3
95°	52	48	42	40	40	60
105°	206	205	198	195	193	220
115°	387	389	380	379	378	383
125°	576	583	571	569	570	515
135°	768	775	763	757	765	592
145°	951	959	943	938	947	594
155°	1110	1120	1101	1096	1108	511
165°	1225	1236	1220	1213	1225	345
175°	1284	1295	1278	1270	1275	122
180°	1287	1287	1287	1287	1287	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	477.4	477.4	477.4	477.4	477.4
2.5°	475.0	479.7	475.5	476.1	477.1
5°	473.4	479.3	473.7	473.1	477.4
7.5°	469.7	475.1	469.3	467.9	470.9
10°	465.9	471.9	465.2	463.6	465.2
12.5°	459.1	465.4	460.1	457.3	458.7
15°	450.0	454.0	450.0	447.3	447.3
17.5°	438.8	443.0	435.5	433.6	432.7
20°	430.7	434.4	426.3	423.6	421.6
22.5°	419.9	423.3	416.6	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°	14.2	12.7	7.9	6.3	6.3
95°	52.3	47.5	42.4	39.5	40.5
97.5°	96.5	91.9	85.6	82.7	83.5
100°	127.3	123.4	116.4	113.5	113.5
102.5°	157.3	155.0	148.0	145.1	145.8
105°	206.2	205.2	198.3	195.3	193.4
107.5°	260.3	258.5	250.8	250.6	248.8
110°	295.0	294.0	287.1	286.1	285.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	330.5	331.9	324.2	323.2	322.2
115°	386.8	388.7	379.9	378.9	377.9
117.5°	444.4	447.1	437.7	436.7	434.9
120°	481.5	487.3	475.6	474.6	473.6
122.5°	519.4	524.4	513.5	511.7	511.5
125°	576.2	583.0	571.3	569.3	570.3
127.5°	633.0	640.0	629.1	625.2	627.3
130°	670.9	678.7	667.0	663.1	666.0
132.5°	709.6	717.3	705.7	701.8	706.3
135°	767.6	775.3	762.7	757.0	764.7
137.5°	824.3	831.0	817.2	813.2	821.3
140°	861.4	868.1	853.5	848.8	858.4
142.5°	897.7	905.2	889.0	884.3	894.7
145°	951.1	958.9	943.3	938.5	947.2
147.5°	1002.5	1010.4	994.6	989.0	997.9
150°	1034.0	1042.7	1026.1	1021.4	1031.1
152.5°	1064.8	1074.3	1056.9	1051.5	1063.4
155°	1110.0	1119.6	1101.1	1096.5	1108.0
157.5°	1150.7	1159.5	1142.8	1138.1	1148.1
160°	1175.1	1184.8	1167.2	1162.6	1174.1
162.5°	1196.4	1206.1	1190.1	1183.9	1195.4
165°	1225.4	1236.1	1219.5	1212.9	1225.4
167.5°	1249.7	1261.1	1243.6	1237.6	1250.1
170°	1263.9	1274.5	1257.0	1249.4	1261.9
172.5°	1273.4	1284.0	1266.5	1258.8	1267.5
175°	1283.7	1295.2	1277.7	1270.0	1274.8
177.5°	1288.2	1297.5	1283.5	1276.6	1287.4
180°	1286.6	1286.6	1286.6	1286.6	1286.6



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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	10.14	10.81	11.28	11.94	13.53	9.06	9.74	10.21	10.87	12.45
	3H	11.79	12.40	12.95	13.54	15.13	10.46	11.06	11.61	12.20	13.80
	4H	12.42	12.99	13.58	14.13	15.73	10.97	11.54	12.13	12.68	14.29
	6H	12.79	13.32	13.96	14.46	16.07	11.28	11.80	12.45	12.95	14.56
	8H	12.92	13.42	14.09	14.58	16.19	11.40	11.90	12.57	13.05	14.66
	12H	12.98	13.46	14.16	14.61	16.24	11.47	11.94	12.64	13.09	14.72
4H	2H	10.53	11.10	11.69	12.24	13.84	9.67	10.24	10.84	11.38	12.98
	3H	12.40	12.88	13.57	14.04	15.66	11.27	11.75	12.44	12.91	14.53
	4H	13.14	13.58	14.31	14.73	16.37	11.87	12.31	13.04	13.46	15.09
	6H	13.63	14.01	14.81	15.18	16.81	12.27	12.64	13.45	13.82	15.44
	8H	13.82	14.17	15.00	15.34	16.98	12.44	12.79	13.61	13.95	15.59
	12H	13.91	14.23	15.10	15.40	17.05	12.53	12.85	13.73	14.03	15.67
8H	4H	13.25	13.60	14.43	14.77	16.41	12.11	12.46	13.29	13.63	15.27
	6H	13.87	14.16	15.06	15.37	17.00	12.64	12.92	13.83	14.13	15.77
	8H	14.14	14.39	15.34	15.58	17.24	12.89	13.14	14.09	14.33	15.98
	12H	14.30	14.52	15.50	15.70	17.39	13.05	13.27	14.26	14.46	16.15
12H	4H	13.22	13.54	14.41	14.72	16.36	12.11	12.43	13.30	13.60	15.25
	6H	13.88	14.13	15.08	15.32	16.98	12.69	12.94	13.89	14.13	15.79
	8H	14.17	14.39	15.38	15.58	17.27	12.96	13.19	14.17	14.37	16.06