

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: P824301

Luminaire Tested: CB3-D-085U-030D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824301
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-830-1D-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, 3000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4140.8 lumens
Efficiency: N/A
Efficacy: 127.8 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

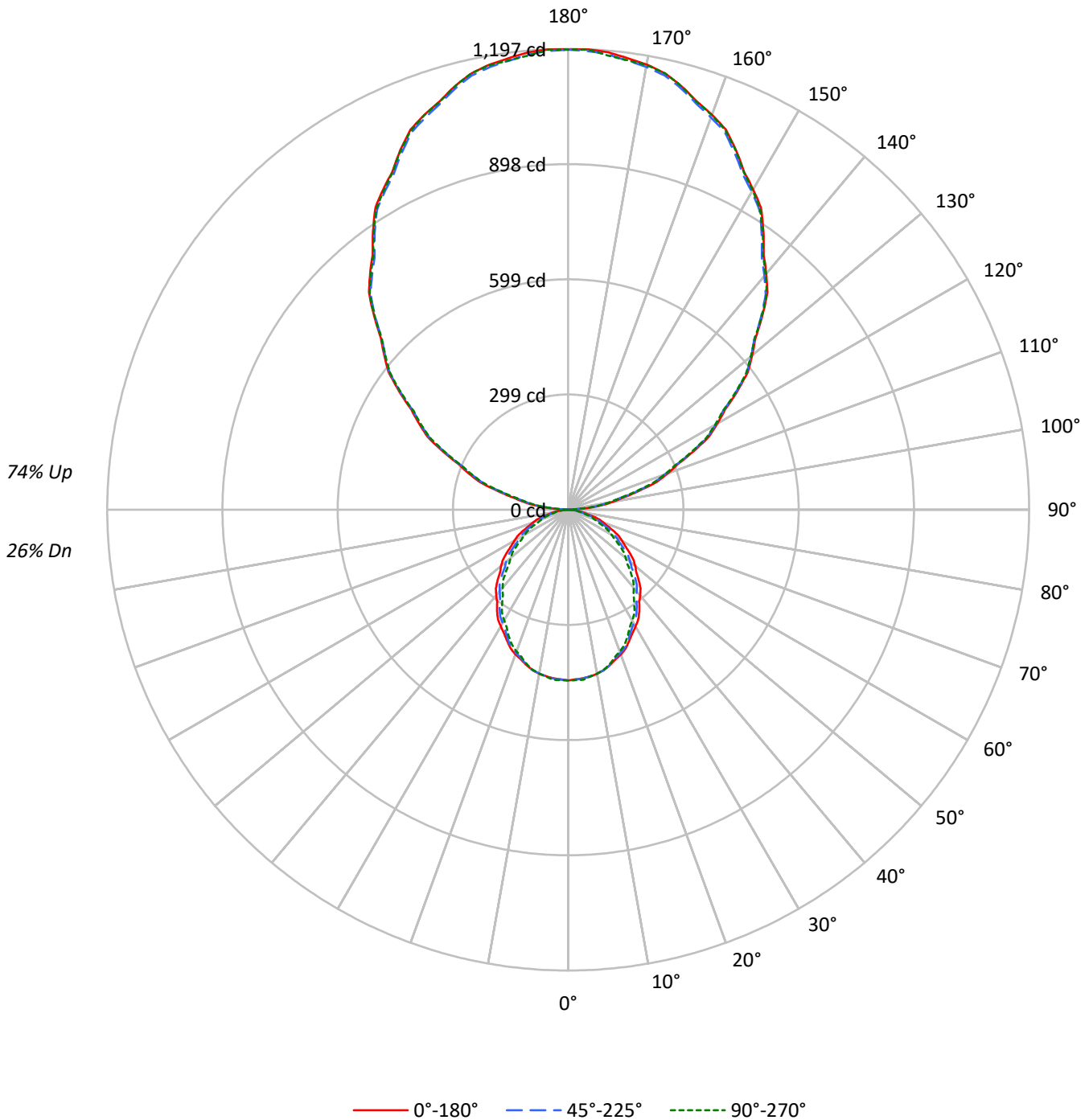
Input Watts (W): 32.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	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°	5018	5018	5018
5°	4994	4997	5037
10°	4972	4966	4966
15°	4896	4896	4867
20°	4817	4768	4716
25°	4685	4627	4544
30°	4571	4451	4345
35°	4450	4285	4133
40°	4289	4085	3910
45°	4144	3907	3666
50°	3994	3696	3431
55°	3833	3492	3206
60°	3657	3279	2951
65°	3451	3039	2685
70°	3212	2756	2392
75°	2911	2418	2129
80°	2541	2026	1883
85°	1960	1714	1714

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4144 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	1.0
10°-20°	117.6	2.8
20°-30°	170.5	4.1
30°-40°	193.8	4.7
40°-50°	188.1	4.5
50°-60°	158.8	3.8
60°-70°	113.0	2.7
70°-80°	60.4	1.5
80°-90°	15.9	0.4
90°-100°	50.5	1.2
100°-110°	197.6	4.8
110°-120°	352.2	8.5
120°-130°	476.7	11.5
130°-140°	548.0	13.2
140°-150°	549.9	13.3
150°-160°	472.9	11.4
160°-170°	320.1	7.7
170°-180°	112.9	2.7
0°-30°	330.0	8.0
0°-40°	523.8	12.6
0°-60°	870.7	21.0
0°-90°	1060.0	25.6
90°-120°	600.4	14.5
90°-150°	2174.9	52.5
90°-180°	3081.0	74.4
0°-180°	4140.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	444	444	444	444	444	
5°	440	445	440	440	444	42
15°	418	422	418	416	416	118
25°	375	376	371	366	364	173
35°	322	319	310	301	299	201
45°	259	255	244	232	229	200
55°	194	189	177	166	162	174
65°	129	124	114	103	100	128
75°	67	63	55	50	49	71
85°	15	14	13	13	13	18
90°	0	0	0	0	0	2
95°	49	44	39	37	38	55
105°	192	191	184	181	180	204
115°	359	361	353	352	351	356
125°	535	542	531	529	530	479
135°	713	720	708	703	710	550
145°	884	891	876	872	880	552
155°	1031	1040	1023	1019	1029	474
165°	1138	1148	1133	1127	1138	321
175°	1192	1203	1187	1180	1184	113
180°	1195	1195	1195	1195	1195	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	443.5	443.5	443.5	443.5	443.5
2.5°	441.2	445.7	441.7	442.3	443.2
5°	439.7	445.3	440.0	439.5	443.5
7.5°	436.3	441.4	436.0	434.7	437.5
10°	432.8	438.3	432.2	430.6	432.2
12.5°	426.5	432.3	427.4	424.9	426.1
15°	418.0	421.7	418.0	415.5	415.5
17.5°	407.7	411.5	404.6	402.8	401.9
20°	400.1	403.5	396.0	393.5	391.7
22.5°	390.1	393.2	387.0	381.9	380.6
25°	375.3	376.5	370.6	365.5	364.0
27.5°	361.4	361.7	353.6	347.4	345.4
30°	349.9	350.2	340.7	334.1	332.6
32.5°	338.3	337.4	328.4	320.5	319.5
35°	322.2	319.1	310.2	301.1	299.2
37.5°	302.8	300.9	290.4	281.3	278.5
40°	290.4	287.4	276.6	267.4	264.7
42.5°	278.1	274.6	263.5	253.3	250.3
45°	259.0	255.0	244.2	232.5	229.1
47.5°	239.8	235.4	223.6	212.2	208.5
50°	226.9	222.3	210.0	198.9	194.9
52.5°	213.9	209.0	196.6	185.3	182.1
55°	194.3	189.0	177.0	165.6	162.5
57.5°	174.6	169.5	157.5	146.7	143.0
60°	161.6	156.6	144.9	134.1	130.4
62.5°	148.2	143.6	132.1	121.6	118.1
65°	128.9	124.3	113.5	103.3	100.3
67.5°	109.7	105.8	95.1	85.8	83.4
70°	97.1	93.4	83.3	74.8	72.3
72.5°	85.1	81.1	71.5	64.2	62.5
75°	66.6	63.0	55.3	49.6	48.7
77.5°	49.8	46.8	40.2	37.0	36.5
80°	39.0	36.2	31.1	28.9	28.9
82.5°	28.9	26.6	23.3	22.4	22.4
85°	15.1	13.9	13.2	13.2	13.2
87.5°	4.5	4.5	4.3	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.2	11.8	7.3	5.9	5.9
95°	48.6	44.1	39.4	36.7	37.6
97.5°	89.6	85.3	79.6	76.8	77.5
100°	118.2	114.7	108.2	105.4	105.4
102.5°	146.1	144.0	137.5	134.8	135.5
105°	191.6	190.7	184.2	181.4	179.6
107.5°	241.8	240.2	233.0	232.8	231.2
110°	274.1	273.2	266.7	265.8	264.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	307.1	308.3	301.2	300.2	299.4
115°	359.3	361.1	352.9	351.9	351.0
117.5°	412.8	415.3	406.6	405.6	404.0
120°	447.3	452.7	441.8	440.8	440.0
122.5°	482.5	487.1	477.0	475.3	475.1
125°	535.3	541.5	530.7	528.9	529.8
127.5°	588.1	594.5	584.4	580.8	582.8
130°	623.3	630.4	619.6	616.0	618.7
132.5°	659.2	666.4	655.5	652.0	656.1
135°	713.1	720.3	708.5	703.2	710.3
137.5°	765.7	772.0	759.1	755.4	763.0
140°	800.2	806.4	792.8	788.5	797.4
142.5°	833.9	840.9	825.8	821.5	831.1
145°	883.6	890.7	876.2	871.8	879.9
147.5°	931.2	938.6	923.9	918.8	927.0
150°	960.6	968.6	953.2	948.9	957.8
152.5°	989.2	997.9	981.8	976.8	987.9
155°	1031.1	1040.1	1022.9	1018.6	1029.3
157.5°	1068.9	1077.1	1061.6	1057.2	1066.5
160°	1091.6	1100.6	1084.3	1080.0	1090.7
162.5°	1111.4	1120.4	1105.6	1099.8	1110.5
165°	1138.4	1148.2	1132.9	1126.7	1138.4
167.5°	1160.9	1171.5	1155.2	1149.6	1161.3
170°	1174.1	1184.0	1167.7	1160.6	1172.3
172.5°	1182.9	1192.8	1176.5	1169.4	1177.4
175°	1192.5	1203.2	1187.0	1179.7	1184.2
177.5°	1196.7	1205.3	1192.3	1185.9	1195.9
180°	1195.2	1195.2	1195.2	1195.2	1195.2



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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	9.89	10.56	11.03	11.69	13.27	8.81	9.48	9.95	10.61	12.19
	3H	11.54	12.14	12.69	13.28	14.88	10.21	10.81	11.36	11.95	13.55
	4H	12.16	12.73	13.32	13.87	15.47	10.72	11.29	11.88	12.43	14.03
	6H	12.54	13.06	13.70	14.20	15.82	11.02	11.55	12.19	12.69	14.31
	8H	12.67	13.17	13.84	14.32	15.93	11.14	11.64	12.31	12.80	14.40
	12H	12.73	13.20	13.90	14.35	15.98	11.21	11.68	12.38	12.84	14.46
4H	2H	10.27	10.84	11.44	11.98	13.59	9.41	9.98	10.58	11.12	12.73
	3H	12.14	12.62	13.32	13.79	15.40	11.01	11.49	12.19	12.66	14.27
	4H	12.88	13.32	14.06	14.48	16.11	11.61	12.05	12.79	13.21	14.84
	6H	13.38	13.75	14.56	14.93	16.55	12.01	12.39	13.19	13.57	15.19
	8H	13.56	13.91	14.74	15.08	16.72	12.18	12.53	13.36	13.70	15.34
	12H	13.65	13.97	14.85	15.15	16.79	12.28	12.59	13.47	13.77	15.42
8H	4H	13.00	13.35	14.18	14.52	16.16	11.86	12.21	13.04	13.38	15.02
	6H	13.61	13.90	14.81	15.11	16.75	12.38	12.67	13.58	13.88	15.52
	8H	13.88	14.14	15.09	15.32	16.98	12.63	12.88	13.83	14.07	15.73
	12H	14.04	14.26	15.25	15.45	17.13	12.80	13.02	14.01	14.21	15.89
12H	4H	12.96	13.28	14.16	14.46	16.10	11.85	12.17	13.05	13.35	14.99
	6H	13.63	13.88	14.83	15.06	16.72	12.44	12.69	13.64	13.88	15.53
	8H	13.92	14.14	15.12	15.32	17.01	12.71	12.93	13.92	14.12	15.80