

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: P824274

Luminaire Tested: CB3-D-030U-055D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824274
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-030U-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 300 LUMENS PER FOOT
Light Source: 80 CRI, 3000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3082.0 lumens
Efficiency: N/A
Efficacy: 124.8 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-Direct

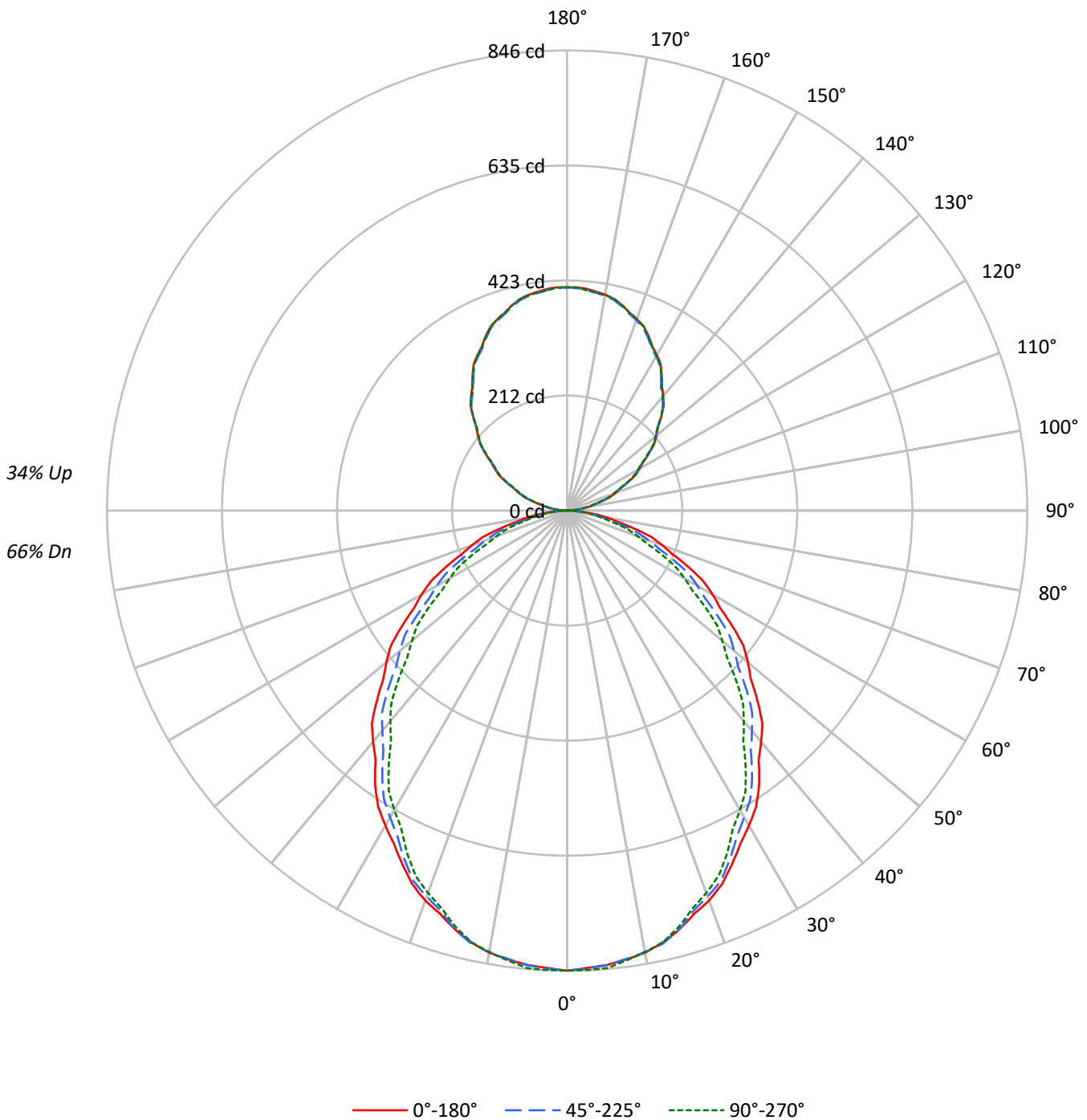
Input Watts (W): 24.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																		
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	102	97	93	90	95	92	88	85	81	79	76	72	70	68	63	61	60	56
2	93	85	79	74	87	80	75	70	71	67	64	63	60	57	56	53	51	47
3	85	75	68	62	79	71	64	59	63	58	54	56	52	49	49	46	44	40
4	78	67	59	53	73	63	56	50	56	51	46	50	46	42	44	41	38	35
5	71	60	51	45	67	57	49	44	51	45	40	45	40	36	40	36	33	30
6	66	54	45	40	62	51	43	38	46	40	35	41	36	32	36	32	29	27
7	61	49	41	35	57	46	39	34	42	36	31	37	32	29	33	29	26	24
8	57	44	36	31	53	42	35	30	38	32	28	34	29	26	31	27	24	21
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	28	24	21	19
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	26	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9570	9570	9570
5°	9525	9531	9589
10°	9483	9469	9469
15°	9338	9338	9282
20°	9186	9092	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°	79.8	2.6
10°-20°	224.2	7.3
20°-30°	325.6	10.6
30°-40°	370.2	12.0
40°-50°	359.4	11.7
50°-60°	303.4	9.8
60°-70°	215.9	7.0
70°-80°	115.4	3.7
80°-90°	30.5	1.0
90°-100°	17.3	0.6
100°-110°	67.8	2.2
110°-120°	120.9	3.9
120°-130°	163.6	5.3
130°-140°	188.1	6.1
140°-150°	188.8	6.1
150°-160°	162.3	5.3
160°-170°	109.9	3.6
170°-180°	38.8	1.3
0°-30°	629.7	20.4
0°-40°	999.9	32.4
0°-60°	1662.7	53.9
0°-90°	2024.4	65.7
90°-120°	206.1	6.7
90°-150°	746.6	24.2
90°-180°	1058.0	34.3
0°-180°	3082.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	846	846	846	846	846	
5°	839	849	839	838	844	80
15°	797	804	797	792	792	225
25°	717	719	708	698	695	330
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	2
95°	17	15	14	13	13	19
105°	66	66	63	62	62	70
115°	123	124	121	121	120	122
125°	184	186	182	182	182	164
135°	245	247	243	241	244	189
145°	303	306	301	299	302	190
155°	354	357	351	350	353	163
165°	391	394	389	387	391	110
175°	409	413	408	405	406	39
180°	410	410	410	410	410	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	845.8	845.8	845.8	845.8	845.8
2.5°	841.5	849.9	842.4	843.4	845.3
5°	838.6	849.2	839.2	838.1	844.3
7.5°	832.1	841.7	831.4	829.0	834.3
10°	825.4	836.0	824.2	821.2	824.2
12.5°	813.4	824.4	815.1	810.2	812.7
15°	797.2	804.2	797.2	792.4	792.4
17.5°	777.3	784.7	771.5	768.1	766.7
20°	762.9	769.4	755.1	750.3	748.2
22.5°	743.7	749.7	737.8	729.4	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°	4.5	4.0	2.5	2.0	2.0
95°	16.7	15.1	13.5	12.6	12.9
97.5°	30.8	29.3	27.3	26.4	26.6
100°	40.6	39.4	37.1	36.2	36.2
102.5°	50.2	49.4	47.2	46.3	46.5
105°	65.8	65.5	63.2	62.3	61.7
107.5°	83.0	82.4	80.0	79.9	79.4
110°	94.1	93.8	91.6	91.2	90.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	105.4	105.8	103.4	103.1	102.8
115°	123.3	124.0	121.1	120.8	120.5
117.5°	141.7	142.6	139.6	139.2	138.7
120°	153.5	155.4	151.7	151.3	151.0
122.5°	165.6	167.2	163.7	163.2	163.1
125°	183.8	185.9	182.2	181.6	181.9
127.5°	201.9	204.1	200.6	199.4	200.1
130°	214.0	216.4	212.7	211.5	212.4
132.5°	226.3	228.8	225.0	223.8	225.2
135°	244.8	247.3	243.2	241.4	243.9
137.5°	262.9	265.0	260.6	259.3	261.9
140°	274.7	276.8	272.2	270.7	273.7
142.5°	286.3	288.7	283.5	282.0	285.3
145°	303.3	305.8	300.8	299.3	302.1
147.5°	319.7	322.2	317.2	315.4	318.2
150°	329.7	332.5	327.2	325.7	328.8
152.5°	339.6	342.6	337.0	335.3	339.1
155°	354.0	357.1	351.1	349.7	353.3
157.5°	366.9	369.8	364.4	362.9	366.1
160°	374.7	377.8	372.2	370.7	374.4
162.5°	381.5	384.6	379.5	377.5	381.2
165°	390.8	394.2	388.9	386.8	390.8
167.5°	398.5	402.2	396.6	394.7	398.7
170°	403.1	406.4	400.9	398.4	402.4
172.5°	406.1	409.5	403.9	401.4	404.2
175°	409.4	413.0	407.5	405.0	406.5
177.5°	410.8	413.8	409.3	407.1	410.5
180°	410.3	410.3	410.3	410.3	410.3



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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	16.33	17.34	17.15	18.17	19.20	15.26	16.26	16.07	17.10	18.12
	3H	18.01	18.91	18.84	19.76	20.82	16.68	17.58	17.50	18.43	19.48
	4H	18.65	19.50	19.49	20.35	21.42	17.20	18.06	18.05	18.91	19.97
	6H	19.04	19.83	19.90	20.69	21.77	17.53	18.31	18.38	19.17	20.25
	8H	19.18	19.93	20.05	20.81	21.89	17.66	18.40	18.52	19.28	20.36
	12H	19.25	19.97	20.12	20.84	21.94	17.74	18.45	18.61	19.32	20.43
4H	2H	16.76	17.61	17.61	18.46	19.53	15.90	16.75	16.75	17.60	18.67
	3H	18.66	19.37	19.52	20.26	21.34	17.53	18.24	18.39	19.13	20.21
	4H	19.42	20.06	20.29	20.94	22.05	18.15	18.79	19.02	19.67	20.78
	6H	19.93	20.49	20.81	21.39	22.50	18.57	19.12	19.45	20.03	21.14
	8H	20.12	20.64	21.01	21.54	22.67	18.74	19.26	19.63	20.16	21.29
	12H	20.23	20.70	21.14	21.61	22.75	18.85	19.32	19.76	20.24	21.37
8H	4H	19.56	20.08	20.45	20.98	22.10	18.42	18.94	19.31	19.84	20.97
	6H	20.18	20.61	21.10	21.55	22.68	18.95	19.38	19.87	20.32	21.45
	8H	20.46	20.84	21.39	21.78	22.92	19.21	19.59	20.13	20.52	21.66
	12H	20.63	20.97	21.56	21.89	23.09	19.39	19.73	20.32	20.65	21.85
12H	4H	19.54	20.01	20.45	20.93	22.06	18.43	18.90	19.34	19.81	20.95
	6H	20.20	20.58	21.13	21.52	22.66	19.01	19.39	19.94	20.33	21.47
	8H	20.51	20.84	21.44	21.77	22.96	19.30	19.64	20.23	20.56	21.76