

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: P824275

Luminaire Tested: CB3-D-030U-055D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824275
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-835-1D-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, 3500K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3362.5 lumens
Efficiency: N/A
Efficacy: 136.1 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

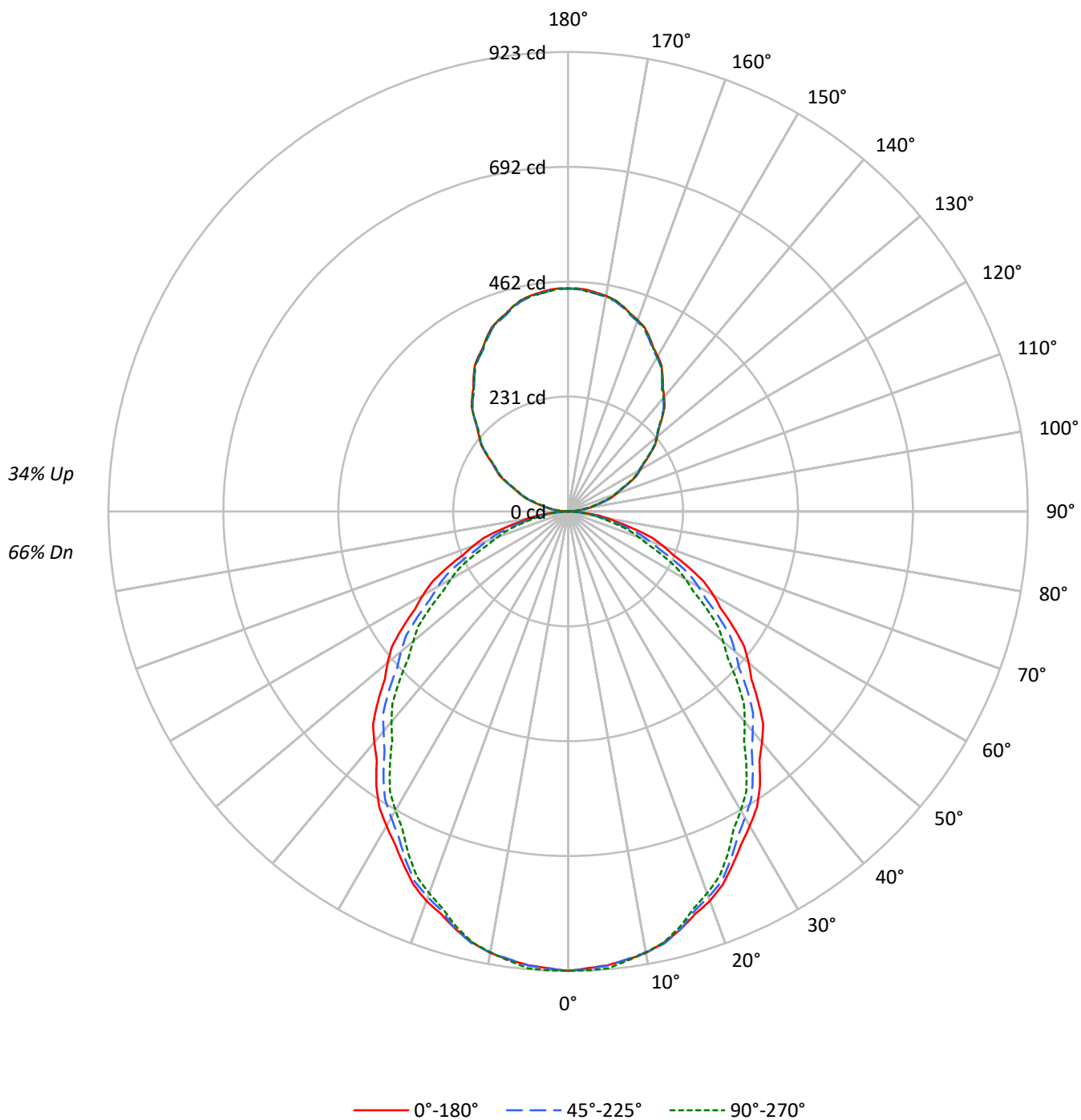
Input Watts (W): 24.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	10441	10441	10441
5°	10391	10399	10463
10°	10346	10331	10331
15°	10187	10187	10127
20°	10023	9920	9829
25°	9765	9643	9472
30°	9527	9279	9055
35°	9275	8931	8615
40°	8942	8515	8147
45°	8637	8145	7642
50°	8326	7703	7150
55°	7987	7275	6681
60°	7619	6834	6153
65°	7191	6332	5595
70°	6696	5743	4985
75°	6072	5040	4437
80°	5291	4229	3929
85°	4076	3570	3570

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8637 cd/sqm

TEST NUMBER: P824275

CATALOG NUMBER: CB3-D-030U-055D-835-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	2.6
10°-20°	244.6	7.3
20°-30°	355.3	10.6
30°-40°	403.9	12.0
40°-50°	392.1	11.7
50°-60°	331.0	9.8
60°-70°	235.5	7.0
70°-80°	125.8	3.7
80°-90°	33.2	1.0
90°-100°	18.9	0.6
100°-110°	74.0	2.2
110°-120°	131.9	3.9
120°-130°	178.5	5.3
130°-140°	205.2	6.1
140°-150°	205.9	6.1
150°-160°	177.1	5.3
160°-170°	119.9	3.6
170°-180°	42.3	1.3
0°-30°	687.0	20.4
0°-40°	1090.9	32.4
0°-60°	1814.0	53.9
0°-90°	2208.6	65.7
90°-120°	224.9	6.7
90°-150°	814.6	24.2
90°-180°	1154.0	34.3
0°-180°	3362.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	915	926	916	914	921	87
15°	870	877	870	864	864	245
25°	782	785	772	762	759	360
35°	672	665	647	628	624	418
45°	540	532	509	485	478	416
55°	405	394	369	345	339	362
65°	269	259	236	215	209	266
75°	139	131	115	104	102	148
85°	31	29	28	28	28	37
90°	0	0	0	0	0	2
95°	18	16	15	14	14	21
105°	72	71	69	68	67	77
115°	135	135	132	132	132	133
125°	200	203	199	198	198	179
135°	267	270	265	263	266	206
145°	331	334	328	326	330	207
155°	386	390	383	382	386	178
165°	426	430	424	422	426	120
175°	447	451	445	442	444	42
180°	448	448	448	448	448	

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CATALOG NUMBER: CB3-D-030U-055D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	922.8	922.8	922.8	922.8	922.8
2.5°	918.1	927.3	919.1	920.2	922.3
5°	914.9	926.5	915.6	914.4	921.2
7.5°	907.9	918.4	907.1	904.4	910.2
10°	900.5	912.0	899.2	896.0	899.2
12.5°	887.4	899.5	889.2	883.9	886.6
15°	869.7	877.4	869.7	864.5	864.5
17.5°	848.1	856.2	841.7	838.0	836.5
20°	832.4	839.4	823.9	818.6	816.3
22.5°	811.4	817.9	805.0	795.8	793.3
25°	782.2	784.8	772.4	761.9	758.7
27.5°	753.3	753.9	736.9	724.1	719.9
30°	729.2	729.8	710.2	696.3	693.1
32.5°	705.1	703.1	684.5	668.1	665.9
35°	671.5	665.1	646.6	627.5	623.7
37.5°	631.0	627.2	605.4	586.2	580.5
40°	605.4	598.9	576.5	557.4	551.6
42.5°	579.7	572.2	549.3	528.0	521.8
45°	539.8	531.5	509.0	484.6	477.6
47.5°	499.7	490.6	465.9	442.3	434.5
50°	473.0	463.4	437.6	414.5	406.2
52.5°	445.8	435.6	409.9	386.3	379.5
55°	404.9	394.0	368.8	345.1	338.7
57.5°	364.0	353.2	328.2	305.8	298.1
60°	336.7	326.5	302.0	279.6	271.9
62.5°	309.0	299.2	275.3	253.4	246.2
65°	268.6	259.0	236.5	215.4	209.0
67.5°	228.6	220.4	198.2	178.9	173.7
70°	202.4	194.8	173.6	155.8	150.7
72.5°	177.3	169.1	149.0	133.8	130.2
75°	138.9	131.2	115.3	103.5	101.5
77.5°	103.8	97.5	83.7	77.0	76.0
80°	81.2	75.5	64.9	60.3	60.3
82.5°	60.3	55.5	48.6	46.6	46.6
85°	31.4	28.9	27.5	27.5	27.5
87.5°	9.4	9.4	8.9	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.9	4.4	2.7	2.2	2.2
95°	18.2	16.5	14.8	13.7	14.1
97.5°	33.6	32.0	29.8	28.8	29.0
100°	44.3	42.9	40.5	39.5	39.5
102.5°	54.7	53.9	51.5	50.5	50.7
105°	71.7	71.4	69.0	68.0	67.3
107.5°	90.6	90.0	87.3	87.2	86.6
110°	102.6	102.3	99.9	99.5	99.2

TEST NUMBER: P824275

CATALOG NUMBER: CB3-D-030U-055D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	115.0	115.5	112.8	112.5	112.1
115°	134.6	135.2	132.2	131.8	131.5
117.5°	154.6	155.6	152.3	151.9	151.3
120°	167.5	169.5	165.5	165.1	164.8
122.5°	180.7	182.5	178.6	178.0	178.0
125°	200.5	202.8	198.8	198.1	198.4
127.5°	220.3	222.7	218.9	217.5	218.3
130°	233.4	236.1	232.1	230.7	231.7
132.5°	246.9	249.6	245.5	244.2	245.7
135°	267.1	269.8	265.4	263.4	266.0
137.5°	286.8	289.1	284.3	282.9	285.8
140°	299.7	302.0	296.9	295.3	298.7
142.5°	312.3	314.9	309.3	307.7	311.3
145°	330.9	333.6	328.2	326.5	329.6
147.5°	348.8	351.5	346.0	344.1	347.2
150°	359.8	362.8	357.0	355.4	358.7
152.5°	370.5	373.8	367.7	365.8	370.0
155°	386.2	389.6	383.1	381.5	385.5
157.5°	400.3	403.4	397.6	396.0	399.4
160°	408.9	412.2	406.1	404.5	408.5
162.5°	416.3	419.6	414.1	411.9	415.9
165°	426.4	430.1	424.3	422.0	426.4
167.5°	434.8	438.8	432.7	430.6	434.9
170°	439.7	443.4	437.3	434.7	439.1
172.5°	443.0	446.7	440.6	438.0	441.0
175°	446.6	450.6	444.6	441.8	443.5
177.5°	448.2	451.4	446.5	444.2	447.9
180°	447.6	447.6	447.6	447.6	447.6

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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	16.64	17.64	17.45	18.48	19.50	15.56	16.57	16.37	17.40	18.43
	3H	18.31	19.22	19.14	20.06	21.12	16.98	17.89	17.81	18.73	19.79
	4H	18.95	19.80	19.79	20.65	21.72	17.51	18.36	18.35	19.21	20.28
	6H	19.34	20.13	20.20	20.99	22.07	17.83	18.62	18.69	19.48	20.56
	8H	19.48	20.23	20.35	21.11	22.19	17.96	18.71	18.82	19.58	20.66
	12H	19.56	20.27	20.43	21.14	22.25	18.04	18.75	18.91	19.62	20.73
4H	2H	17.06	17.91	17.91	18.76	19.83	16.20	17.06	17.05	17.91	18.97
	3H	18.96	19.67	19.82	20.56	21.64	17.84	18.55	18.69	19.43	20.51
	4H	19.72	20.37	20.59	21.25	22.36	18.45	19.09	19.32	19.97	21.09
	6H	20.23	20.79	21.12	21.69	22.81	18.87	19.43	19.75	20.33	21.44
	8H	20.42	20.95	21.31	21.84	22.97	19.04	19.56	19.93	20.46	21.59
	12H	20.53	21.00	21.44	21.92	23.05	19.15	19.62	20.06	20.54	21.67
8H	4H	19.86	20.38	20.75	21.28	22.41	18.72	19.24	19.61	20.14	21.27
	6H	20.48	20.92	21.40	21.86	22.98	19.26	19.69	20.17	20.63	21.75
	8H	20.76	21.14	21.69	22.08	23.22	19.51	19.89	20.43	20.82	21.97
	12H	20.93	21.27	21.86	22.19	23.39	19.69	20.03	20.62	20.95	22.15
12H	4H	19.84	20.31	20.75	21.23	22.36	18.73	19.20	19.64	20.12	21.25
	6H	20.50	20.88	21.43	21.82	22.96	19.31	19.70	20.24	20.63	21.77
	8H	20.81	21.15	21.74	22.07	23.27	19.60	19.94	20.53	20.86	22.06