

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: P824272

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

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824272
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-030D-835-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
3-INCH APERTURE
DOWNLIGHT 300 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: 2310.1 lumens
Efficiency: N/A
Efficacy: 138.3 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

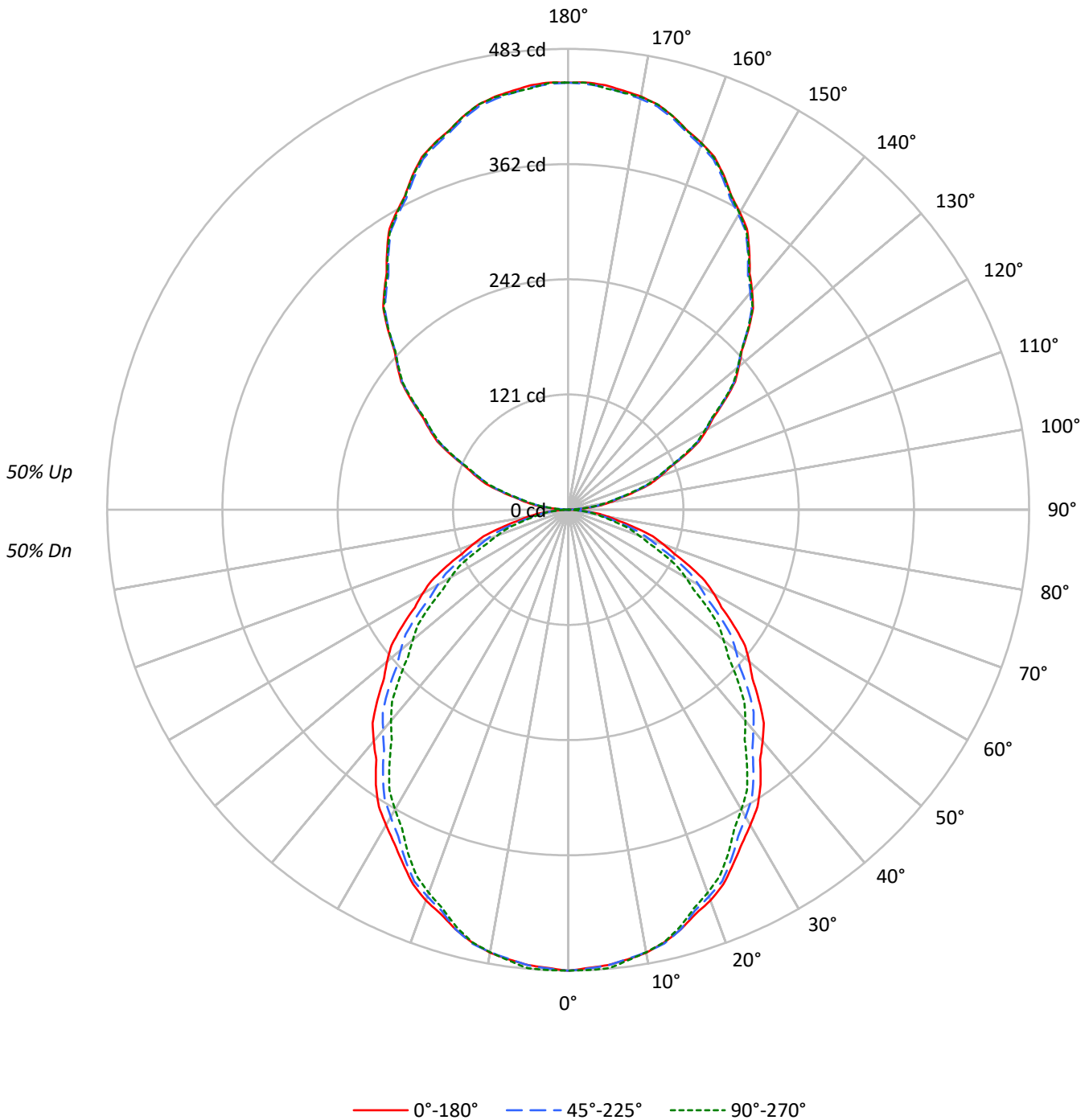
Input Watts (W): 16.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50				
1	98	94	90	86	90	87	83	80	73	71	69	61	60	58	50	49	48	43				
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	41	36				
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35	31				
4	75	64	56	50	69	59	53	47	51	46	41	43	39	36	35	32	30	26				
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23				
6	63	51	43	38	58	48	41	35	41	35	31	35	30	27	29	26	23	20				
7	59	46	38	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18				
8	54	42	34	29	50	39	32	28	34	29	25	29	25	22	24	21	19	16				
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15				
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5467	5467	5467
5°	5442	5445	5480
10°	5417	5410	5410
15°	5334	5334	5303
20°	5249	5194	5145
25°	5112	5047	4957
30°	4987	4858	4740
35°	4855	4676	4510
40°	4681	4458	4266
45°	4522	4264	4000
50°	4358	4033	3742
55°	4180	3809	3497
60°	3990	3578	3220
65°	3764	3314	2929
70°	3507	3007	2610
75°	3178	2640	2326
80°	2769	2215	2059
85°	2142	1869	1869

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4522 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	2.0
10°-20°	128.1	5.5
20°-30°	186.0	8.1
30°-40°	211.4	9.2
40°-50°	205.2	8.9
50°-60°	173.3	7.5
60°-70°	123.3	5.3
70°-80°	65.9	2.9
80°-90°	17.4	0.8
90°-100°	18.9	0.8
100°-110°	74.0	3.2
110°-120°	131.9	5.7
120°-130°	178.5	7.7
130°-140°	205.2	8.9
140°-150°	205.9	8.9
150°-160°	177.1	7.7
160°-170°	119.9	5.2
170°-180°	42.3	1.8
0°-30°	359.7	15.6
0°-40°	571.1	24.7
0°-60°	949.6	41.1
0°-90°	1156.2	50.1
90°-120°	224.9	9.7
90°-150°	814.6	35.3
90°-180°	1154.0	50.0
0°-180°	2310.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	483	483	483	483	483	
5°	479	485	479	479	482	45
15°	455	460	455	453	453	128
25°	410	411	404	399	397	189
35°	352	348	338	328	326	219
45°	283	278	266	254	250	218
55°	212	206	193	181	177	189
65°	141	136	124	113	109	139
75°	73	69	60	54	53	78
85°	16	15	14	14	14	20
90°	0	0	0	0	0	1
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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	483.2	483.2	483.2	483.2	483.2
2.5°	480.7	485.6	481.3	481.9	482.9
5°	479.1	485.1	479.4	478.8	482.5
7.5°	475.4	480.9	475.0	473.6	476.6
10°	471.5	477.6	470.9	469.2	470.9
12.5°	464.7	471.0	465.6	462.9	464.3
15°	455.4	459.5	455.4	452.7	452.7
17.5°	444.1	448.3	440.8	438.8	438.0
20°	435.9	439.6	431.4	428.6	427.3
22.5°	424.9	428.3	421.5	416.6	415.2
25°	409.5	410.8	404.3	398.8	397.1
27.5°	394.3	394.7	385.7	379.0	376.8
30°	381.7	382.0	371.8	364.5	362.8
32.5°	369.1	368.1	358.3	349.7	348.6
35°	351.5	348.2	338.5	328.5	326.5
37.5°	330.3	328.3	316.9	306.9	303.8
40°	316.9	313.5	301.8	291.8	288.8
42.5°	303.4	299.5	287.5	276.4	273.1
45°	282.6	278.2	266.5	253.7	250.0
47.5°	261.6	256.8	243.9	231.5	227.4
50°	247.6	242.6	229.1	217.0	212.6
52.5°	233.3	228.0	214.5	202.2	198.6
55°	211.9	206.2	193.1	180.7	177.3
57.5°	190.5	184.9	171.8	160.1	156.0
60°	176.3	170.9	158.1	146.3	142.3
62.5°	161.7	156.6	144.1	132.6	128.9
65°	140.6	135.6	123.8	112.8	109.4
67.5°	119.7	115.4	103.8	93.6	90.9
70°	106.0	101.9	90.9	81.6	78.9
72.5°	92.8	88.5	78.0	70.1	68.2
75°	72.7	68.7	60.4	54.2	53.2
77.5°	54.3	51.0	43.8	40.3	39.8
80°	42.5	39.5	34.0	31.6	31.6
82.5°	31.6	29.1	25.4	24.4	24.4
85°	16.5	15.1	14.4	14.4	14.4
87.5°	4.9	4.9	4.7	4.4	4.4
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



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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	13.05	13.90	14.01	14.88	16.15	11.98	12.83	12.93	13.80	15.07
	3H	14.72	15.48	15.69	16.46	17.76	13.39	14.15	14.36	15.13	16.43
	4H	15.35	16.07	16.33	17.06	18.36	13.91	14.63	14.89	15.61	16.91
	6H	15.73	16.40	16.73	17.39	18.70	14.22	14.89	15.22	15.88	17.19
	8H	15.87	16.50	16.87	17.51	18.82	14.35	14.98	15.35	15.99	17.30
	12H	15.94	16.54	16.94	17.54	18.88	14.42	15.02	15.43	16.02	17.36
4H	2H	13.46	14.18	14.45	15.17	16.47	12.60	13.32	13.59	14.31	15.61
	3H	15.35	15.95	16.35	16.96	18.28	14.22	14.82	15.22	15.84	17.15
	4H	16.10	16.65	17.10	17.65	18.99	14.83	15.38	15.83	16.38	17.72
	6H	16.60	17.07	17.62	18.10	19.44	15.24	15.71	16.26	16.74	18.08
	8H	16.79	17.23	17.81	18.25	19.61	15.41	15.85	16.43	16.87	18.23
	12H	16.89	17.29	17.93	18.32	19.68	15.51	15.91	16.55	16.95	18.31
8H	4H	16.23	16.67	17.24	17.69	19.04	15.09	15.53	16.11	16.55	17.90
	6H	16.84	17.21	17.89	18.27	19.62	15.62	15.98	16.66	17.05	18.40
	8H	17.12	17.44	18.17	18.49	19.86	15.87	16.19	16.92	17.24	18.61
	12H	17.28	17.57	18.34	18.61	20.02	16.04	16.33	17.10	17.37	18.78
12H	4H	16.20	16.60	17.24	17.64	18.99	15.09	15.49	16.13	16.53	17.88
	6H	16.86	17.18	17.91	18.23	19.60	15.67	15.99	16.72	17.05	18.41
	8H	17.16	17.44	18.22	18.49	19.90	15.95	16.24	17.01	17.28	18.69