

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: P824287

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

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824287
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-055U-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 550 LUMENS PER FOOT
Light Source: 80 CRI, 3500K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3383.9 lumens
Efficiency: N/A
Efficacy: 138.1 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-Indirect

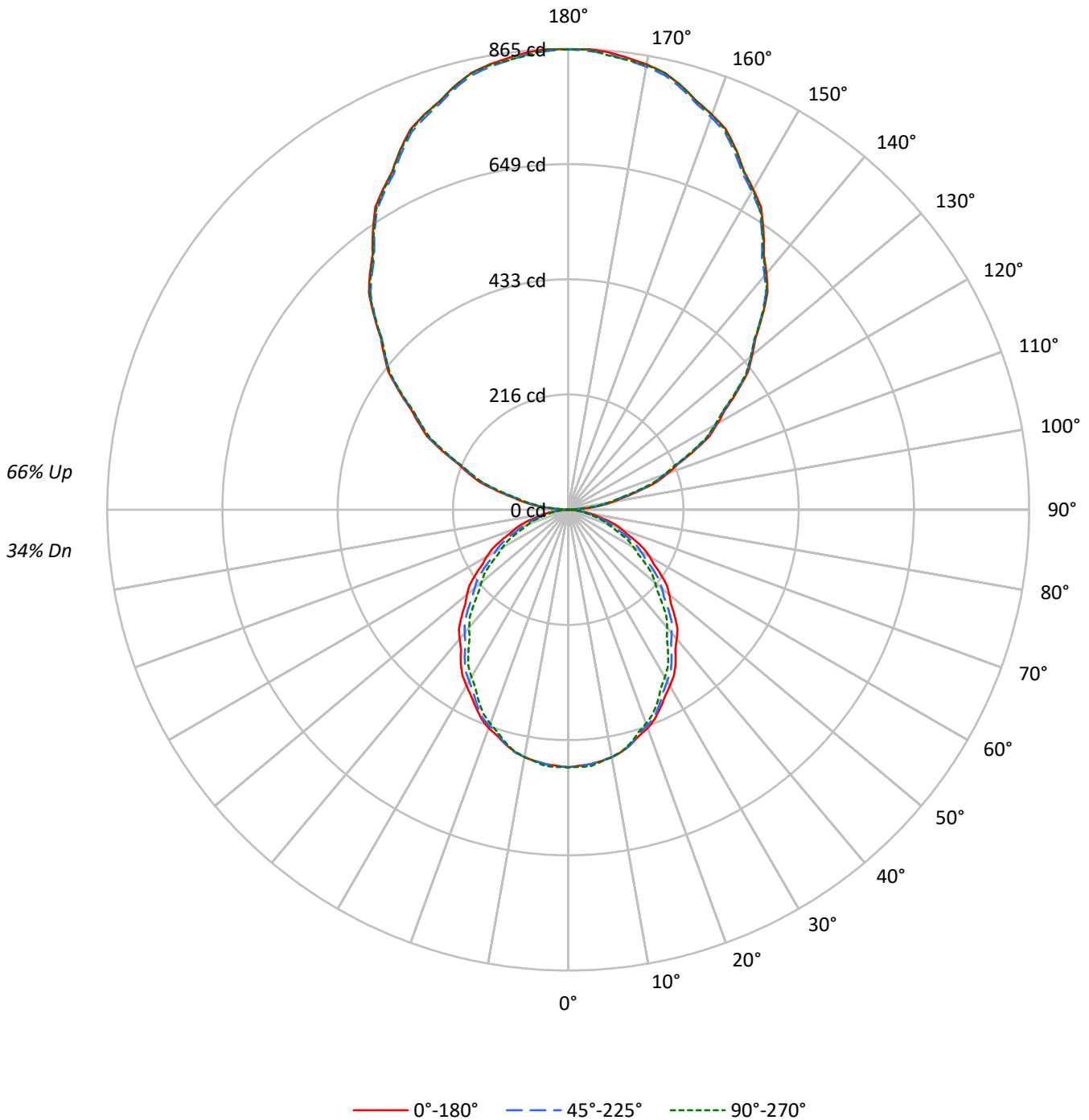
Input Watts (W): 24.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																		
0	103	103	103	103	93	93	93	93	75	75	75	57	57	57	42	42	42	34
1	94	90	86	83	85	82	78	76	65	63	61	51	49	48	37	36	35	29
2	86	79	73	68	77	71	66	62	57	54	51	45	42	40	33	31	30	25
3	78	69	62	57	71	63	57	52	51	46	43	39	37	34	29	27	26	21
4	72	61	54	48	65	56	49	44	45	40	37	35	32	29	26	24	22	18
5	66	55	47	41	59	50	43	38	40	35	32	32	28	25	23	21	19	16
6	61	49	41	35	55	45	38	33	36	31	27	29	25	22	21	19	17	14
7	56	44	36	31	50	40	33	29	33	28	24	26	22	20	19	17	15	12
8	52	40	32	27	47	37	30	25	30	25	21	24	20	17	18	15	14	11
9	48	36	29	24	44	33	27	23	27	22	19	22	18	16	16	14	12	10
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	15	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5471	5471	5471
5°	5445	5449	5488
10°	5422	5414	5414
15°	5338	5338	5306
20°	5252	5198	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	1.3
10°-20°	128.2	3.8
20°-30°	186.0	5.5
30°-40°	211.4	6.2
40°-50°	205.2	6.1
50°-60°	173.3	5.1
60°-70°	123.3	3.6
70°-80°	65.9	1.9
80°-90°	17.4	0.5
90°-100°	36.5	1.1
100°-110°	142.9	4.2
110°-120°	254.7	7.5
120°-130°	344.6	10.2
130°-140°	396.2	11.7
140°-150°	397.6	11.7
150°-160°	341.9	10.1
160°-170°	231.5	6.8
170°-180°	81.6	2.4
0°-30°	359.8	10.6
0°-40°	571.3	16.9
0°-60°	949.8	28.1
0°-90°	1156.4	34.2
90°-120°	434.1	12.8
90°-150°	1572.6	46.5
90°-180°	2228.0	65.8
0°-180°	3383.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	484	484	484	484	484	
5°	479	485	480	479	483	46
15°	456	460	456	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	2
95°	35	32	28	26	27	40
105°	138	138	133	131	130	148
115°	260	261	255	254	254	257
125°	387	392	384	382	383	346
135°	516	521	512	508	514	397
145°	639	644	634	630	636	399
155°	746	752	740	736	744	343
165°	823	830	819	815	823	232
175°	862	870	858	853	856	82
180°	864	864	864	864	864	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	483.5	483.5	483.5	483.5	483.5
2.5°	481.1	485.9	481.6	482.2	483.3
5°	479.4	485.4	479.8	479.2	483.2
7.5°	475.7	481.2	475.3	473.9	476.9
10°	471.9	477.9	471.2	469.5	471.2
12.5°	465.0	471.3	466.0	463.2	464.6
15°	455.7	459.8	455.7	453.0	453.0
17.5°	444.4	448.7	441.1	439.1	438.3
20°	436.2	439.9	431.7	429.0	427.3
22.5°	425.2	428.6	421.9	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°	9.5	8.5	5.3	4.2	4.2
95°	35.1	31.9	28.5	26.5	27.2
97.5°	64.8	61.7	57.5	55.5	56.1
100°	85.5	82.9	78.2	76.2	76.2
102.5°	105.6	104.1	99.4	97.4	97.9
105°	138.5	137.9	133.2	131.2	129.9
107.5°	174.8	173.7	168.5	168.3	167.1
110°	198.2	197.5	192.9	192.2	191.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	222.0	222.9	217.8	217.1	216.4
115°	259.8	261.1	255.1	254.5	253.8
117.5°	298.5	300.3	294.0	293.3	292.1
120°	323.4	327.3	319.4	318.8	318.1
122.5°	348.9	352.2	344.9	343.7	343.6
125°	387.0	391.6	383.7	382.4	383.1
127.5°	425.2	429.9	422.5	419.9	421.4
130°	450.6	455.8	448.0	445.4	447.3
132.5°	476.6	481.8	474.0	471.4	474.4
135°	515.6	520.8	512.3	508.4	513.6
137.5°	553.6	558.2	548.9	546.2	551.6
140°	578.6	583.1	573.3	570.1	576.6
142.5°	602.9	608.0	597.1	594.0	601.0
145°	638.9	644.0	633.6	630.4	636.2
147.5°	673.3	678.6	668.0	664.3	670.3
150°	694.5	700.4	689.2	686.1	692.5
152.5°	715.2	721.6	709.9	706.2	714.3
155°	745.6	752.0	739.6	736.5	744.2
157.5°	772.9	778.8	767.6	764.4	771.1
160°	789.3	795.8	784.0	780.9	788.6
162.5°	803.6	810.1	799.4	795.2	803.0
165°	823.1	830.2	819.1	814.7	823.1
167.5°	839.4	847.0	835.3	831.2	839.7
170°	848.9	856.1	844.3	839.2	847.6
172.5°	855.3	862.4	850.7	845.5	851.3
175°	862.2	870.0	858.2	853.0	856.2
177.5°	865.2	871.5	862.1	857.5	864.7
180°	864.2	864.2	864.2	864.2	864.2



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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	11.37	12.10	12.45	13.18	14.66	10.29	11.02	11.38	12.10	13.59
	3H	13.03	13.68	14.12	14.77	16.27	11.70	12.35	12.79	13.44	14.94
	4H	13.65	14.27	14.76	15.36	16.87	12.21	12.83	13.31	13.92	15.42
	6H	14.03	14.60	15.14	15.69	17.21	12.52	13.09	13.63	14.18	15.70
	8H	14.16	14.70	15.28	15.81	17.33	12.64	13.18	13.75	14.29	15.80
	12H	14.23	14.74	15.35	15.84	17.38	12.71	13.22	13.83	14.33	15.86
4H	2H	11.76	12.38	12.87	13.47	14.98	10.90	11.52	12.02	12.61	14.12
	3H	13.64	14.15	14.76	15.27	16.79	12.51	13.03	13.63	14.15	15.66
	4H	14.38	14.86	15.50	15.96	17.50	13.11	13.59	14.23	14.69	16.23
	6H	14.88	15.28	16.01	16.41	17.94	13.52	13.92	14.65	15.06	16.58
	8H	15.07	15.44	16.19	16.57	18.11	13.69	14.06	14.81	15.19	16.73
	12H	15.16	15.50	16.30	16.64	18.19	13.78	14.13	14.93	15.26	16.81
8H	4H	14.50	14.88	15.63	16.00	17.55	13.36	13.74	14.49	14.87	16.41
	6H	15.12	15.43	16.26	16.59	18.14	13.89	14.20	15.04	15.37	16.91
	8H	15.39	15.66	16.55	16.81	18.37	14.14	14.41	15.29	15.56	17.12
	12H	15.55	15.79	16.71	16.93	18.53	14.31	14.55	15.47	15.69	17.29
12H	4H	14.47	14.81	15.61	15.95	17.50	13.36	13.70	14.50	14.84	16.39
	6H	15.13	15.40	16.29	16.55	18.11	13.94	14.22	15.10	15.36	16.93
	8H	15.42	15.66	16.58	16.81	18.40	14.22	14.46	15.38	15.60	17.20