

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: P824288

Luminaire Tested: CB3-D-055U-030D-840-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824288
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-840-1D-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, 4000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3338.8 lumens
Efficiency: N/A
Efficacy: 136.3 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: Semi-Indirect

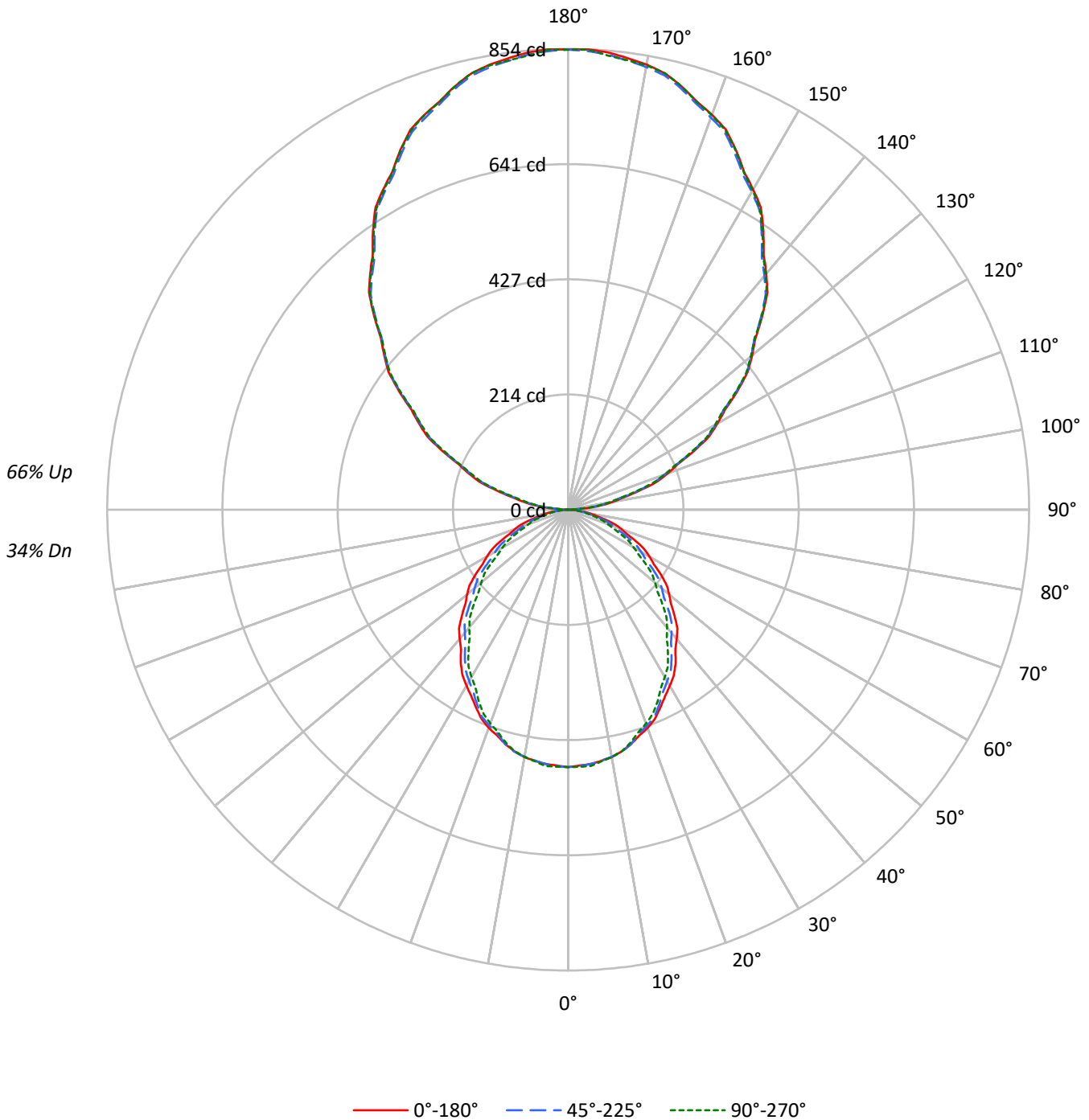
Input Watts (W): 24.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	5398	5398	5398
5°	5372	5377	5414
10°	5349	5341	5341
15°	5268	5268	5236
20°	5182	5129	5076
25°	5044	4980	4891
30°	4920	4792	4677
35°	4790	4613	4449
40°	4619	4399	4208
45°	4461	4207	3948
50°	4300	3978	3693
55°	4125	3758	3450
60°	3935	3530	3177
65°	3713	3272	2889
70°	3460	2967	2574
75°	3134	2605	2291
80°	2737	2183	2026
85°	2103	1843	1843

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4461 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.0	1.3
10°-20°	126.5	3.8
20°-30°	183.6	5.5
30°-40°	208.6	6.2
40°-50°	202.5	6.1
50°-60°	171.0	5.1
60°-70°	121.7	3.6
70°-80°	65.0	1.9
80°-90°	17.2	0.5
90°-100°	36.0	1.1
100°-110°	141.0	4.2
110°-120°	251.3	7.5
120°-130°	340.0	10.2
130°-140°	390.9	11.7
140°-150°	392.3	11.7
150°-160°	337.4	10.1
160°-170°	228.4	6.8
170°-180°	80.5	2.4
0°-30°	355.0	10.6
0°-40°	563.6	16.9
0°-60°	937.1	28.1
0°-90°	1140.9	34.2
90°-120°	428.3	12.8
90°-150°	1551.6	46.5
90°-180°	2198.0	65.8
0°-180°	3338.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	477	477	477	477	477	
5°	473	479	473	473	477	45
15°	450	454	450	447	447	127
25°	404	405	399	394	392	186
35°	347	344	334	324	322	216
45°	279	274	263	250	247	215
55°	209	204	190	178	175	187
65°	139	134	122	111	108	137
75°	72	68	60	53	52	76
85°	16	15	14	14	14	19
90°	0	0	0	0	0	2
95°	35	32	28	26	27	40
105°	137	136	131	129	128	146
115°	256	258	252	251	250	254
125°	382	386	379	377	378	341
135°	509	514	506	502	507	392
145°	630	636	625	622	628	394
155°	736	742	730	727	734	338
165°	812	819	808	804	812	229
175°	851	858	847	842	845	81
180°	853	853	853	853	853	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	477.1	477.1	477.1	477.1	477.1
2.5°	474.6	479.4	475.2	475.8	476.8
5°	473.0	479.0	473.4	472.8	476.7
7.5°	469.4	474.8	469.0	467.6	470.6
10°	465.6	471.5	464.9	463.2	464.9
12.5°	458.8	465.0	459.8	457.0	458.4
15°	449.7	453.6	449.7	447.0	447.0
17.5°	438.5	442.7	435.2	433.3	432.4
20°	430.4	434.0	426.0	423.2	421.6
22.5°	419.6	422.9	416.2	411.1	409.7
25°	404.0	405.3	398.9	393.5	391.8
27.5°	389.1	389.4	380.6	374.0	371.8
30°	376.6	376.9	366.8	359.7	358.0
32.5°	364.2	363.2	353.5	345.0	343.9
35°	346.8	343.5	334.0	324.1	322.1
37.5°	325.9	323.9	312.7	302.8	299.8
40°	312.7	309.3	297.8	287.9	284.9
42.5°	299.4	295.6	283.7	272.7	269.5
45°	278.8	274.5	262.9	250.3	246.7
47.5°	258.1	253.4	240.6	228.4	224.4
50°	244.3	239.3	226.0	214.1	209.8
52.5°	230.2	225.0	211.7	199.5	196.0
55°	209.1	203.5	190.5	178.2	174.9
57.5°	188.0	182.4	169.5	157.9	154.0
60°	173.9	168.6	156.0	144.4	140.4
62.5°	159.6	154.5	142.2	130.9	127.2
65°	138.7	133.8	122.2	111.2	107.9
67.5°	118.1	113.9	102.4	92.4	89.7
70°	104.6	100.6	89.7	80.5	77.8
72.5°	91.6	87.3	76.9	69.1	67.3
75°	71.7	67.8	59.6	53.4	52.4
77.5°	53.6	50.4	43.2	39.8	39.3
80°	42.0	39.0	33.5	31.1	31.1
82.5°	31.1	28.7	25.1	24.1	24.1
85°	16.2	14.9	14.2	14.2	14.2
87.5°	4.9	4.9	4.6	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	9.4	8.4	5.2	4.2	4.2
95°	34.7	31.5	28.1	26.2	26.8
97.5°	63.9	60.9	56.8	54.8	55.3
100°	84.4	81.8	77.2	75.2	75.2
102.5°	104.2	102.7	98.1	96.1	96.6
105°	136.7	136.0	131.4	129.4	128.2
107.5°	172.5	171.3	166.2	166.1	164.9
110°	195.5	194.9	190.3	189.6	189.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	219.1	219.9	214.9	214.2	213.6
115°	256.3	257.6	251.7	251.1	250.4
117.5°	294.5	296.3	290.1	289.4	288.2
120°	319.1	322.9	315.2	314.5	313.9
122.5°	344.2	347.5	340.3	339.1	339.0
125°	381.9	386.3	378.6	377.3	377.9
127.5°	419.5	424.1	416.9	414.3	415.7
130°	444.6	449.8	442.0	439.5	441.4
132.5°	470.3	475.4	467.7	465.1	468.1
135°	508.7	513.8	505.5	501.6	506.8
137.5°	546.3	550.7	541.5	538.9	544.3
140°	570.8	575.3	565.6	562.5	568.9
142.5°	594.9	599.9	589.2	586.0	592.9
145°	630.3	635.5	625.1	622.0	627.7
147.5°	664.3	669.6	659.1	655.5	661.3
150°	685.3	691.0	680.0	676.9	683.3
152.5°	705.7	711.9	700.4	696.8	704.8
155°	735.6	742.0	729.7	726.6	734.3
157.5°	762.6	768.4	757.3	754.2	760.9
160°	778.8	785.2	773.5	770.5	778.1
162.5°	792.9	799.3	788.7	784.6	792.2
165°	812.1	819.2	808.2	803.8	812.1
167.5°	828.2	835.8	824.2	820.2	828.5
170°	837.6	844.7	833.0	828.0	836.3
172.5°	843.9	850.9	839.3	834.2	840.0
175°	850.7	858.4	846.8	841.6	844.8
177.5°	853.7	859.8	850.6	846.0	853.2
180°	852.7	852.7	852.7	852.7	852.7



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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	11.32	12.05	12.41	13.13	14.61	10.25	10.97	11.33	12.06	13.54
	3H	12.98	13.63	14.07	14.72	16.22	11.65	12.30	12.74	13.39	14.89
	4H	13.60	14.22	14.71	15.32	16.82	12.16	12.78	13.26	13.87	15.37
	6H	13.98	14.55	15.10	15.65	17.16	12.47	13.04	13.58	14.13	15.65
	8H	14.12	14.66	15.23	15.77	17.28	12.59	13.13	13.71	14.24	15.75
	12H	14.18	14.69	15.30	15.80	17.33	12.66	13.17	13.78	14.28	15.81
4H	2H	11.72	12.33	12.83	13.43	14.93	10.86	11.48	11.97	12.57	14.07
	3H	13.59	14.11	14.71	15.23	16.75	12.46	12.98	13.58	14.10	15.62
	4H	14.34	14.81	15.46	15.92	17.46	13.06	13.54	14.19	14.65	16.18
	6H	14.83	15.24	15.96	16.37	17.90	13.47	13.87	14.60	15.01	16.54
	8H	15.02	15.40	16.15	16.52	18.07	13.64	14.01	14.76	15.14	16.68
	12H	15.11	15.45	16.26	16.59	18.14	13.74	14.08	14.88	15.21	16.76
8H	4H	14.46	14.83	15.58	15.96	17.50	13.32	13.69	14.44	14.82	16.36
	6H	15.07	15.38	16.22	16.55	18.09	13.84	14.15	14.99	15.32	16.86
	8H	15.34	15.62	16.50	16.76	18.33	14.09	14.36	15.24	15.51	17.07
	12H	15.50	15.74	16.66	16.88	18.48	14.26	14.50	15.42	15.64	17.24
12H	4H	14.42	14.77	15.57	15.90	17.45	13.31	13.65	14.46	14.79	16.34
	6H	15.09	15.36	16.24	16.50	18.07	13.89	14.17	15.05	15.31	16.88
	8H	15.38	15.62	16.54	16.76	18.36	14.17	14.41	15.33	15.55	17.15