

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: P824335

Luminaire Tested: CB3-0U-XD-840-B06-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824335
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: CB3-0U-XD-840-B06-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE
3-INCH APERTURE
DOWNLIGHT UNDER 6W BATTERY POWER
DIRECT ONLY
Light Source: 80 CRI, 4000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 730.0 lumens
Efficiency: N/A
Efficacy: 121.7 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: Direct

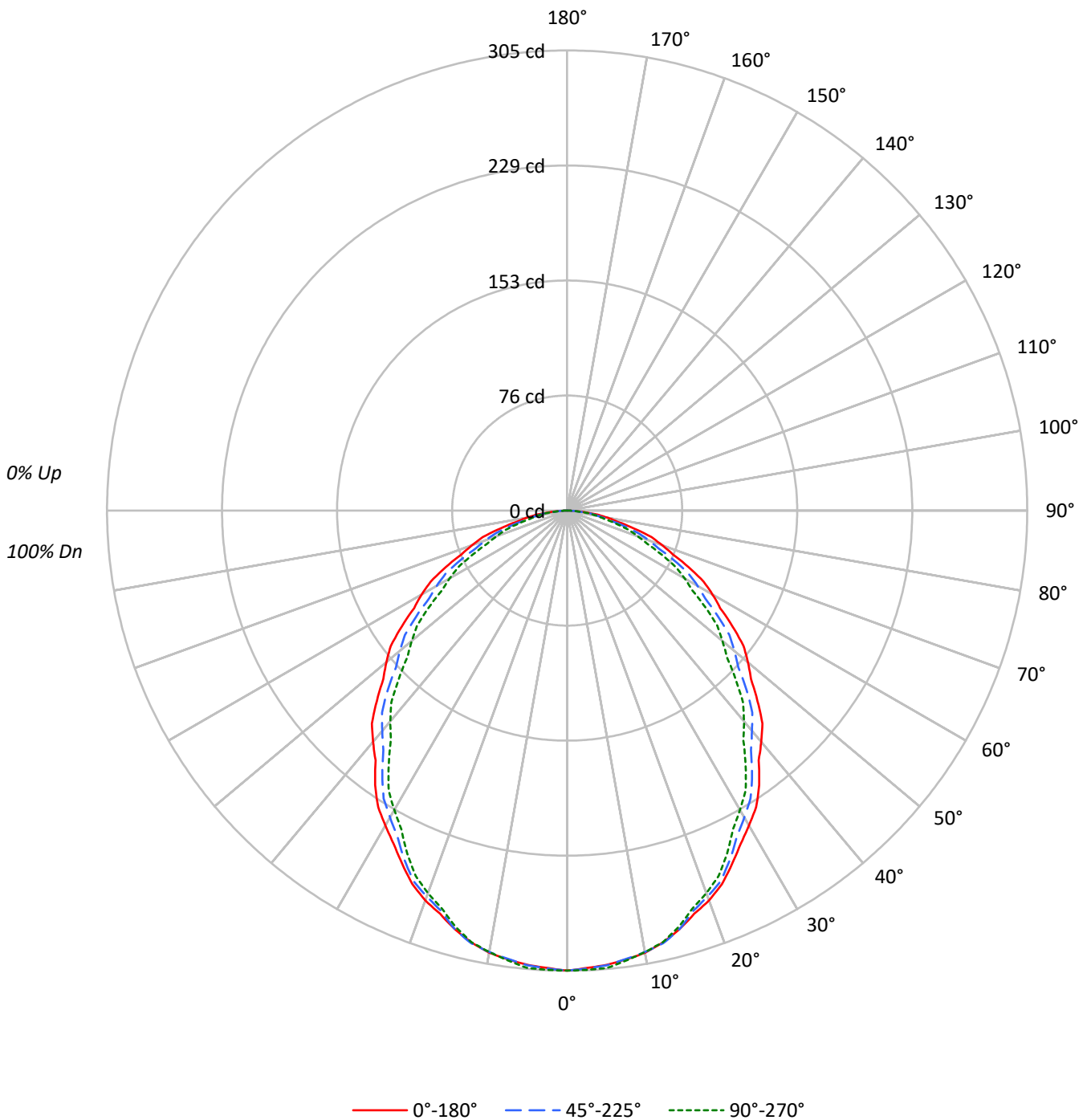
Input Watts (W): 6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85				
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72				
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53				
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46				
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41				
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36				
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32				
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29				
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3450	3450	3450
5°	3433	3436	3456
10°	3419	3413	3413
15°	3367	3367	3345
20°	3311	3277	3249
25°	3228	3187	3131
30°	3149	3068	2993
35°	3066	2952	2848
40°	2956	2815	2693
45°	2855	2693	2527
50°	2753	2547	2364
55°	2639	2405	2209
60°	2519	2258	2034
65°	2377	2094	1850
70°	2213	1899	1647
75°	2007	1666	1469
80°	1753	1394	1297
85°	1350	1181	1181

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2855 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.8	3.9
10°-20°	80.8	11.1
20°-30°	117.4	16.1
30°-40°	133.5	18.3
40°-50°	129.6	17.8
50°-60°	109.4	15.0
60°-70°	77.9	10.7
70°-80°	41.6	5.7
80°-90°	11.0	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	227.0	31.1
0°-40°	360.5	49.4
0°-60°	599.6	82.1
0°-90°	730.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	730.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	305	305	305	305	305	
5°	302	306	302	302	304	29
15°	287	290	287	286	286	81
25°	259	259	255	252	251	119
35°	222	220	214	207	206	138
45°	178	176	168	160	158	138
55°	134	130	122	114	112	120
65°	89	86	78	71	69	88
75°	46	43	38	34	34	49
85°	10	10	9	9	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	304.9	304.9	304.9	304.9	304.9
2.5°	303.4	306.4	303.7	304.1	304.7
5°	302.3	306.1	302.5	302.2	304.3
7.5°	300.0	303.5	299.7	298.9	300.8
10°	297.6	301.4	297.1	296.1	297.1
12.5°	293.2	297.2	293.8	292.1	293.0
15°	287.4	289.9	287.4	285.6	285.6
17.5°	280.2	282.9	278.1	276.9	276.4
20°	275.0	277.4	272.2	270.5	269.8
22.5°	268.1	270.3	266.0	263.0	262.2
25°	258.6	259.4	255.3	251.8	250.8
27.5°	249.0	249.2	243.6	239.4	238.0
30°	241.0	241.2	234.8	230.2	229.1
32.5°	233.1	232.4	226.3	220.8	220.1
35°	222.0	219.9	213.7	207.4	206.2
37.5°	208.6	207.3	200.1	193.8	191.9
40°	200.1	198.0	190.6	184.3	182.3
42.5°	191.6	189.2	181.6	174.5	172.5
45°	178.4	175.7	168.3	160.2	157.9
47.5°	165.2	162.2	154.0	146.2	143.6
50°	156.4	153.2	144.7	137.0	134.3
52.5°	147.3	144.0	135.5	127.7	125.4
55°	133.8	130.2	121.9	114.1	112.0
57.5°	120.3	116.8	108.5	101.1	98.5
60°	111.3	107.9	99.8	92.4	89.9
62.5°	102.1	98.9	91.0	83.8	81.4
65°	88.8	85.6	78.2	71.2	69.1
67.5°	75.6	72.9	65.5	59.1	57.4
70°	66.9	64.4	57.4	51.5	49.8
72.5°	58.6	55.9	49.2	44.2	43.1
75°	45.9	43.4	38.1	34.2	33.6
77.5°	34.3	32.2	27.7	25.5	25.1
80°	26.9	24.9	21.4	19.9	19.9
82.5°	19.9	18.4	16.1	15.4	15.4
85°	10.4	9.5	9.1	9.1	9.1
87.5°	3.1	3.1	2.9	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0



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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	15.30	16.88	15.67	17.20	17.51	14.22	15.80	14.59	16.12	16.43
	3H	17.02	18.44	17.39	18.77	19.13	15.68	17.11	16.06	17.44	17.80
	4H	17.68	19.02	18.08	19.37	19.74	16.23	17.57	16.63	17.92	18.30
	6H	18.10	19.34	18.51	19.70	20.09	16.59	17.82	17.00	18.19	18.58
	8H	18.26	19.44	18.68	19.83	20.23	16.73	17.91	17.15	18.30	18.70
	12H	18.34	19.48	18.77	19.86	20.29	16.83	17.96	17.26	18.34	18.77
4H	2H	15.79	17.13	16.19	17.48	17.85	14.93	16.27	15.33	16.62	16.99
	3H	17.74	18.86	18.15	19.26	19.66	16.61	17.73	17.02	18.13	18.53
	4H	18.52	19.53	18.95	19.94	20.38	17.24	18.25	17.68	18.67	19.10
	6H	19.06	19.94	19.51	20.38	20.84	17.70	18.57	18.15	19.02	19.47
	8H	19.26	20.09	19.73	20.53	21.00	17.88	18.70	18.34	19.15	19.61
	12H	19.40	20.13	19.88	20.61	21.08	18.02	18.76	18.50	19.23	19.70
8H	4H	18.70	19.52	19.16	19.97	20.43	17.56	18.38	18.02	18.83	19.29
	6H	19.35	20.03	19.84	20.52	20.99	18.12	18.80	18.61	19.29	19.76
	8H	19.63	20.24	20.14	20.75	21.23	18.37	18.98	18.88	19.49	19.98
	12H	19.82	20.36	20.33	20.86	21.42	18.58	19.12	19.09	19.61	20.18
12H	4H	18.71	19.44	19.19	19.92	20.39	17.60	18.33	18.08	18.81	19.28
	6H	19.37	19.98	19.88	20.49	20.97	18.18	18.79	18.69	19.30	19.78
	8H	19.70	20.24	20.21	20.73	21.30	18.49	19.03	19.00	19.52	20.09