

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: P824236

Luminaire Tested: CB2-0U-XD-830-B10-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824236
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-242-13, G2-2312-242-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: CB2-0U-XD-830-B10-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE
2-INCH APERTURE
DOWNLIGHT UNDER 10W BATTERY POWER
DIRECT ONLY
Light Source: 80 CRI, 3000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1034.6 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

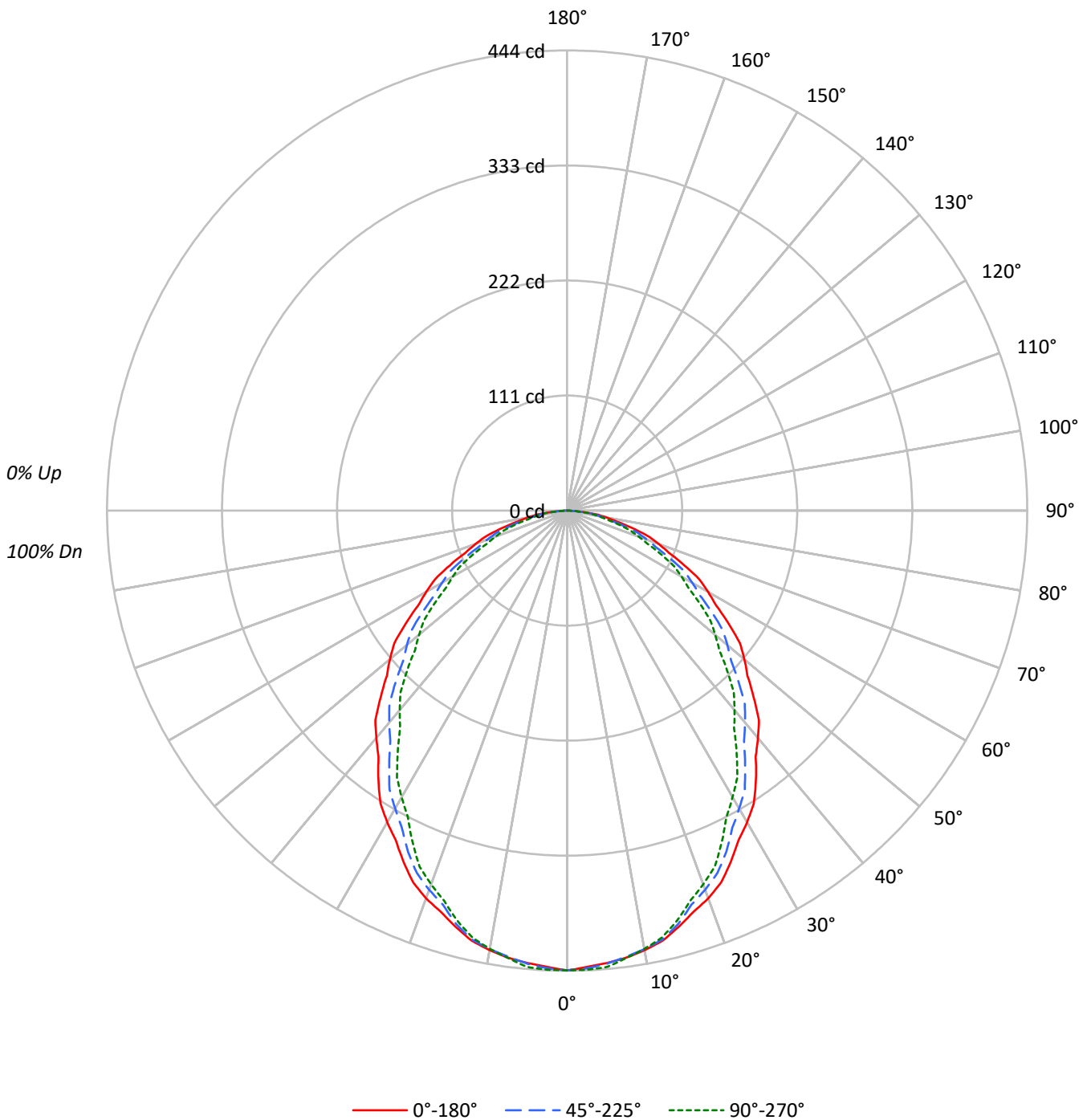
Input Watts (W): 10
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	95	98	95	92	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	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53																												
5	78	65	56	50	76	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	55	48	43	53	47	43	41																												
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36																												
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33																												
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29																												
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7728	7728	7728
5°	7661	7674	7728
10°	7619	7600	7594
15°	7498	7449	7388
20°	7379	7216	7116
25°	7182	6980	6784
30°	6983	6675	6422
35°	6753	6364	6060
40°	6512	6071	5716
45°	6266	5766	5380
50°	6048	5468	5054
55°	5776	5159	4746
60°	5466	4863	4438
65°	5139	4538	4130
70°	4777	4171	3738
75°	4341	3775	3385
80°	3882	3310	3069
85°	2978	2718	2238

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6266 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.7	4.0
10°-20°	116.3	11.2
20°-30°	167.2	16.2
30°-40°	188.0	18.2
40°-50°	181.6	17.5
50°-60°	153.4	14.8
60°-70°	110.2	10.7
70°-80°	60.2	5.8
80°-90°	16.0	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°	325.2	31.4
0°-40°	513.2	49.6
0°-60°	848.2	82.0
0°-90°	1034.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1034.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	444	444	444	444	444	
5°	438	444	439	439	442	42
15°	416	420	413	409	410	117
25°	374	374	363	355	353	172
35°	318	314	299	288	285	198
45°	254	249	234	222	218	197
55°	190	183	170	159	156	170
65°	125	120	110	102	100	124
75°	64	61	56	52	50	69
85°	15	14	14	12	11	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	443.7	443.7	443.7	443.7	443.7
2.5°	440.7	446.0	442.0	442.6	443.4
5°	438.2	444.2	438.9	439.0	442.0
7.5°	435.1	440.8	434.1	432.9	435.7
10°	430.8	436.4	429.7	427.4	429.4
12.5°	425.1	430.4	424.0	420.3	422.1
15°	415.8	419.5	413.1	409.0	409.7
17.5°	405.8	408.0	398.8	395.4	394.8
20°	398.1	400.1	389.3	384.5	383.9
22.5°	388.4	390.1	378.7	372.9	371.9
25°	373.7	374.0	363.2	355.0	353.0
27.5°	358.3	357.3	345.2	335.5	332.9
30°	347.2	345.9	331.9	321.7	319.3
32.5°	335.2	332.8	318.9	307.8	305.5
35°	317.6	314.0	299.3	287.7	285.0
37.5°	298.9	294.8	280.3	267.7	264.7
40°	286.4	281.7	267.0	254.4	251.4
42.5°	273.9	268.7	253.7	241.1	237.8
45°	254.4	249.1	234.1	221.8	218.4
47.5°	236.0	229.2	214.6	202.3	199.0
50°	223.2	215.9	201.8	189.8	186.5
52.5°	210.1	202.6	189.0	177.6	174.3
55°	190.2	183.3	169.9	159.3	156.3
57.5°	170.5	163.8	151.6	141.5	138.5
60°	156.9	151.3	139.6	130.1	127.4
62.5°	143.9	138.8	127.7	118.9	116.3
65°	124.7	120.0	110.1	102.2	100.2
67.5°	106.0	101.3	93.3	86.2	84.0
70°	93.8	89.1	81.9	75.4	73.4
72.5°	82.1	77.2	71.3	65.3	63.9
75°	64.5	60.6	56.1	51.6	50.3
77.5°	49.1	45.2	41.9	38.8	38.5
80°	38.7	35.4	33.0	30.9	30.6
82.5°	28.9	26.4	24.8	23.3	23.2
85°	14.9	14.0	13.6	11.9	11.2
87.5°	4.3	4.3	3.8	3.3	3.3
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	17.95	19.53	18.32	19.85	20.16	16.86	18.44	17.22	18.75	19.06
	3H	19.65	21.07	20.03	21.40	21.76	18.43	19.86	18.81	20.18	20.54
	4H	20.31	21.65	20.71	21.99	22.37	19.04	20.37	19.44	20.72	21.10
	6H	20.74	21.98	21.16	22.35	22.74	19.44	20.68	19.86	21.05	21.44
	8H	20.91	22.09	21.34	22.48	22.88	19.60	20.78	20.03	21.17	21.57
	12H	21.01	22.14	21.44	22.52	22.95	19.69	20.82	20.12	21.20	21.63
4H	2H	18.44	19.78	18.84	20.13	20.51	17.57	18.91	17.97	19.26	19.63
	3H	20.37	21.49	20.78	21.89	22.29	19.37	20.48	19.78	20.88	21.28
	4H	21.15	22.16	21.58	22.57	23.01	20.07	21.08	20.50	21.49	21.93
	6H	21.71	22.58	22.16	23.03	23.48	20.58	21.46	21.04	21.90	22.36
	8H	21.92	22.75	22.39	23.19	23.66	20.79	21.61	21.25	22.05	22.52
	12H	22.06	22.80	22.55	23.28	23.75	20.91	21.64	21.39	22.12	22.59
8H	4H	21.36	22.18	21.82	22.62	23.09	20.39	21.22	20.86	21.66	22.13
	6H	22.03	22.71	22.52	23.20	23.67	21.03	21.71	21.52	22.20	22.67
	8H	22.32	22.93	22.83	23.44	23.93	21.31	21.92	21.82	22.43	22.91
	12H	22.53	23.07	23.04	23.56	24.12	21.49	22.03	22.00	22.52	23.08
12H	4H	21.37	22.11	21.85	22.58	23.05	20.43	21.17	20.91	21.65	22.12
	6H	22.06	22.67	22.57	23.18	23.67	21.09	21.71	21.61	22.22	22.70
	8H	22.41	22.95	22.92	23.44	24.00	21.43	21.97	21.94	22.47	23.03