

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: P824320

Luminaire Tested: CB3R-055D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824320
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: CB3R-055D-835-1D-UNV-STD-W-4
Description: CORELITE BRYX SLOT LED LUMINAIRE
3-INCH APERTURE
DOWNLIGHT 550 LUMENS PER FOOT
DIRECT ONLY
Light Source: 80 CRI, 3500K CCT LEDS
Ballast/Driver: -

Summary

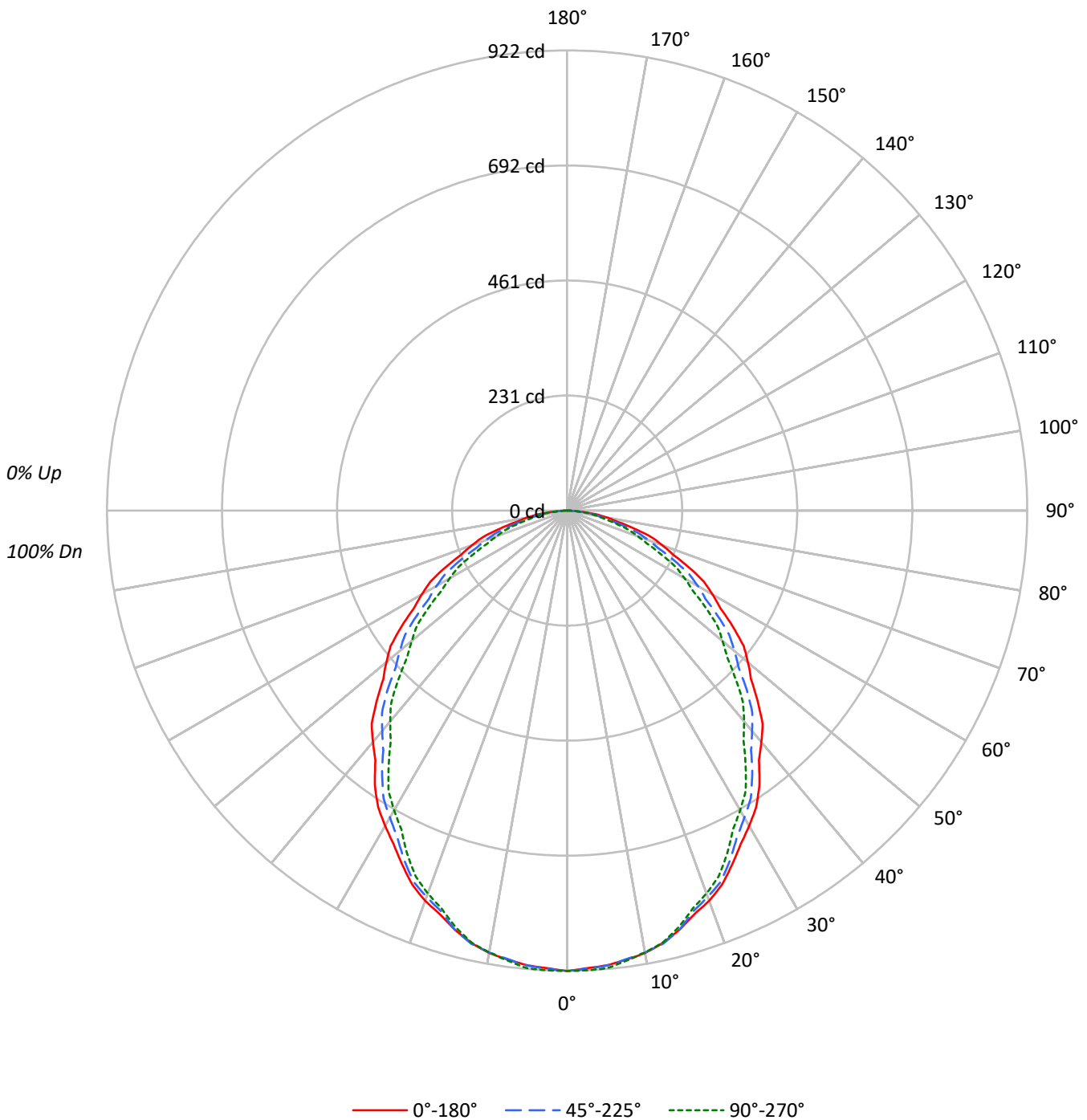
Lumens per Lamp: N/A
Luminaire Lumens: 2208.4 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.24' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.8
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				100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85				85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72				72
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				61
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53				53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46				46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41				41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36				36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32				32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29				29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10437	10437	10437
5°	10388	10395	10455
10°	10343	10328	10328
15°	10184	10184	10122
20°	10018	9916	9829
25°	9765	9643	9472
30°	9527	9279	9055
35°	9275	8931	8615
40°	8942	8515	8147
45°	8637	8145	7642
50°	8326	7703	7150
55°	7987	7275	6681
60°	7619	6834	6153
65°	7191	6332	5595
70°	6696	5743	4985
75°	6072	5040	4437
80°	5291	4229	3929
85°	4076	3570	3570

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8637 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	3.9
10°-20°	244.5	11.1
20°-30°	355.3	16.1
30°-40°	403.9	18.3
40°-50°	392.1	17.8
50°-60°	331.0	15.0
60°-70°	235.5	10.7
70°-80°	125.8	5.7
80°-90°	33.2	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°	686.8	31.1
0°-40°	1090.7	49.4
0°-60°	1813.8	82.1
0°-90°	2208.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2208.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	922	922	922	922	922	
5°	915	926	915	914	920	87
15°	869	877	869	864	864	245
25°	782	785	772	762	759	360
35°	672	665	647	628	624	418
45°	540	532	509	485	478	416
55°	405	394	369	345	339	362
65°	269	259	236	215	209	266
75°	139	131	115	104	102	148
85°	31	29	28	28	28	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	922.4	922.4	922.4	922.4	922.4
2.5°	917.7	927.0	918.8	919.9	921.9
5°	914.6	926.1	915.2	914.1	920.5
7.5°	907.5	918.0	906.7	904.1	909.9
10°	900.2	911.7	898.9	895.7	898.9
12.5°	887.1	899.1	888.9	883.6	886.3
15°	869.4	877.1	869.4	864.1	864.1
17.5°	847.8	855.8	841.3	837.6	836.2
20°	832.0	839.1	823.5	818.2	816.3
22.5°	811.1	817.6	804.7	795.7	793.3
25°	782.2	784.8	772.4	761.9	758.7
27.5°	753.3	753.9	736.9	724.1	719.9
30°	729.2	729.8	710.2	696.3	693.1
32.5°	705.1	703.1	684.5	668.1	665.9
35°	671.5	665.1	646.6	627.5	623.7
37.5°	631.0	627.2	605.4	586.2	580.5
40°	605.4	598.9	576.5	557.4	551.6
42.5°	579.7	572.2	549.3	528.0	521.8
45°	539.8	531.5	509.0	484.6	477.6
47.5°	499.7	490.6	465.9	442.3	434.5
50°	473.0	463.4	437.6	414.5	406.2
52.5°	445.8	435.6	409.9	386.3	379.5
55°	404.9	394.0	368.8	345.1	338.7
57.5°	364.0	353.2	328.2	305.8	298.1
60°	336.7	326.5	302.0	279.6	271.9
62.5°	309.0	299.2	275.3	253.4	246.2
65°	268.6	259.0	236.5	215.4	209.0
67.5°	228.6	220.4	198.2	178.9	173.7
70°	202.4	194.8	173.6	155.8	150.7
72.5°	177.3	169.1	149.0	133.8	130.2
75°	138.9	131.2	115.3	103.5	101.5
77.5°	103.8	97.5	83.7	77.0	76.0
80°	81.2	75.5	64.9	60.3	60.3
82.5°	60.3	55.5	48.6	46.6	46.6
85°	31.4	28.9	27.5	27.5	27.5
87.5°	9.4	9.4	8.9	8.4	8.4
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	19.15	20.73	19.51	21.04	21.35	18.07	19.65	18.43	19.96	20.28
	3H	20.86	22.29	21.24	22.61	22.97	19.53	20.96	19.91	21.28	21.64
	4H	21.52	22.86	21.92	23.21	23.59	20.08	21.42	20.48	21.77	22.14
	6H	21.94	23.18	22.35	23.55	23.94	20.43	21.67	20.84	22.04	22.43
	8H	22.10	23.28	22.53	23.67	24.07	20.57	21.76	21.00	22.15	22.54
	12H	22.19	23.32	22.62	23.70	24.13	20.67	21.80	21.10	22.19	22.61
4H	2H	19.63	20.97	20.03	21.32	21.70	18.78	20.12	19.18	20.46	20.84
	3H	21.59	22.70	22.00	23.10	23.50	20.46	21.57	20.87	21.97	22.37
	4H	22.36	23.37	22.79	23.78	24.22	21.09	22.10	21.52	22.51	22.95
	6H	22.90	23.78	23.36	24.22	24.68	21.54	22.42	22.00	22.86	23.32
	8H	23.11	23.93	23.57	24.37	24.84	21.73	22.55	22.19	22.99	23.46
	12H	23.24	23.98	23.72	24.45	24.92	21.87	22.60	22.35	23.08	23.55
8H	4H	22.54	23.37	23.01	23.81	24.28	21.41	22.23	21.87	22.67	23.14
	6H	23.19	23.87	23.69	24.36	24.84	21.96	22.64	22.46	23.13	23.61
	8H	23.47	24.08	23.98	24.59	25.08	22.22	22.83	22.73	23.34	23.83
	12H	23.67	24.21	24.18	24.70	25.26	22.43	22.97	22.94	23.46	24.02
12H	4H	22.55	23.29	23.03	23.76	24.23	21.44	22.18	21.92	22.66	23.13
	6H	23.21	23.83	23.72	24.33	24.82	22.02	22.64	22.54	23.14	23.63
	8H	23.55	24.09	24.05	24.58	25.14	22.34	22.88	22.85	23.37	23.93