

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: P824224

Luminaire Tested: CB2R-055D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824224
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: CB2R-055D-835-1D-UNV-STD-W-4
Description: CORELITE BRYX SLOT LED LUMINAIRE
2-INCH APERTURE
DOWNLIGHT 550 LUMENS PER FOOT
DIRECT ONLY
Light Source: 80 CRI, 3500K CCT LEDS
Ballast/Driver: -

Summary

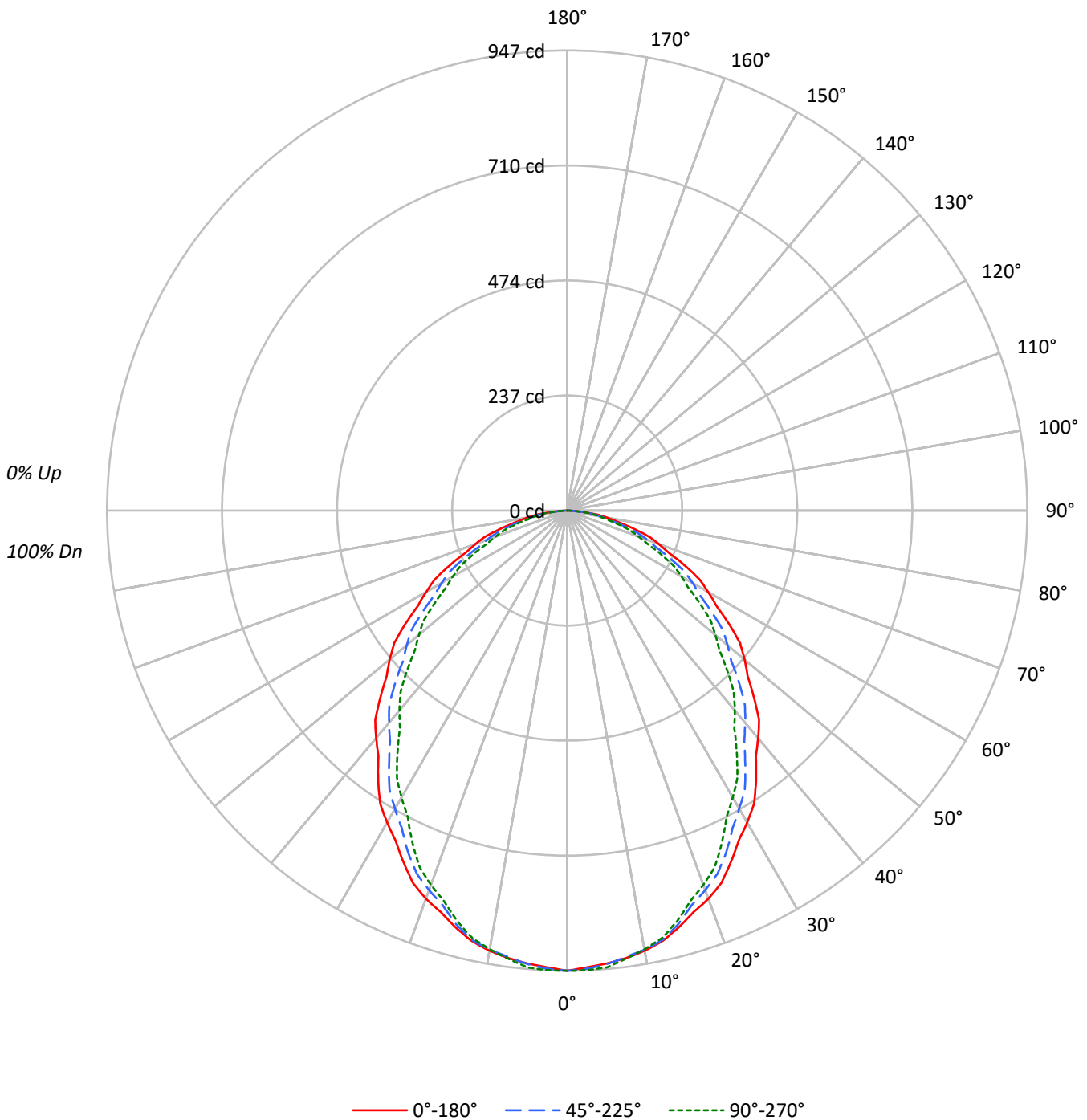
Lumens per Lamp: N/A
Luminaire Lumens: 2208.6 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 18.6
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	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°	16496	16496	16496
5°	16356	16382	16496
10°	16264	16225	16213
15°	16007	15902	15771
20°	15755	15405	15190
25°	15330	14900	14481
30°	14907	14249	13710
35°	14418	13585	12938
40°	13901	12960	12203
45°	13380	12309	11486
50°	12912	11673	10787
55°	12332	11011	10130
60°	11673	10384	9475
65°	10971	9685	8815
70°	10195	8902	7975
75°	9273	8055	7221
80°	8295	7051	6550
85°	6375	5795	4776

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13380 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	4.0
10°-20°	248.3	11.2
20°-30°	357.0	16.2
30°-40°	401.2	18.2
40°-50°	387.6	17.5
50°-60°	327.5	14.8
60°-70°	235.2	10.7
70°-80°	128.6	5.8
80°-90°	34.1	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°	694.3	31.4
0°-40°	1095.6	49.6
0°-60°	1810.7	82.0
0°-90°	2208.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2208.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	947	947	947	947	947	
5°	936	948	937	937	944	89
15°	888	896	882	873	875	250
25°	798	798	775	758	754	367
35°	678	670	639	614	608	424
45°	543	532	500	473	466	420
55°	406	391	363	340	334	363
65°	266	256	235	218	214	264
75°	138	129	120	110	107	147
85°	32	30	29	25	24	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	947.1	947.1	947.1	947.1	947.1
2.5°	940.8	952.1	943.7	944.9	946.6
5°	935.5	948.3	937.0	937.1	943.5
7.5°	928.9	940.9	926.7	924.1	930.0
10°	919.6	931.6	917.4	912.4	916.7
12.5°	907.4	918.9	905.2	897.3	901.0
15°	887.7	895.5	881.9	873.2	874.6
17.5°	866.2	871.0	851.4	844.1	842.7
20°	850.0	854.2	831.1	820.9	819.5
22.5°	829.1	832.8	808.5	796.0	794.0
25°	797.7	798.5	775.3	757.8	753.5
27.5°	765.0	762.7	737.0	716.2	710.7
30°	741.2	738.3	708.5	686.7	681.7
32.5°	715.6	710.5	680.7	657.1	652.1
35°	678.1	670.3	638.9	614.1	608.5
37.5°	638.1	629.3	598.5	571.5	565.1
40°	611.4	601.4	570.0	543.0	536.7
42.5°	584.7	573.6	541.6	514.6	507.7
45°	543.2	531.8	499.7	473.4	466.3
47.5°	503.7	489.3	458.1	431.9	424.8
50°	476.5	460.9	430.8	405.2	398.1
52.5°	448.6	432.5	403.5	379.1	372.0
55°	406.1	391.2	362.6	340.0	333.6
57.5°	364.1	349.7	323.6	302.0	295.7
60°	335.1	323.0	298.1	277.6	272.0
62.5°	307.2	296.3	272.5	253.8	248.2
65°	266.2	256.2	235.0	218.2	213.9
67.5°	226.3	216.3	199.1	184.1	179.3
70°	200.2	190.2	174.8	160.9	156.6
72.5°	175.2	164.7	152.2	139.5	136.3
75°	137.8	129.3	119.7	110.2	107.3
77.5°	104.7	96.5	89.5	82.8	82.1
80°	82.7	75.6	70.3	66.0	65.3
82.5°	61.8	56.4	52.9	49.7	49.6
85°	31.9	29.8	29.0	25.4	23.9
87.5°	9.3	9.3	8.1	7.0	7.0
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	20.59	22.17	20.95	22.48	22.80	19.49	21.07	19.86	21.38	21.70
	3H	22.28	23.71	22.66	24.03	24.39	21.07	22.49	21.44	22.82	23.18
	4H	22.94	24.28	23.34	24.63	25.01	21.67	23.01	22.07	23.36	23.73
	6H	23.38	24.62	23.79	24.98	25.37	22.08	23.32	22.49	23.68	24.07
	8H	23.55	24.73	23.97	25.12	25.52	22.24	23.42	22.66	23.81	24.21
	12H	23.64	24.78	24.07	25.16	25.59	22.32	23.45	22.75	23.83	24.26
4H	2H	21.08	22.42	21.48	22.76	23.14	20.20	21.54	20.60	21.89	22.27
	3H	23.01	24.13	23.42	24.52	24.92	22.00	23.12	22.41	23.52	23.92
	4H	23.78	24.79	24.21	25.20	25.64	22.70	23.71	23.13	24.12	24.56
	6H	24.34	25.22	24.80	25.66	26.12	23.21	24.09	23.67	24.54	24.99
	8H	24.56	25.38	25.02	25.83	26.29	23.42	24.24	23.88	24.69	25.15
	12H	24.70	25.44	25.18	25.91	26.38	23.54	24.28	24.02	24.76	25.23
8H	4H	23.99	24.81	24.45	25.26	25.72	23.03	23.85	23.49	24.29	24.76
	6H	24.66	25.34	25.16	25.83	26.31	23.66	24.34	24.16	24.83	25.31
	8H	24.96	25.57	25.47	26.08	26.56	23.94	24.55	24.45	25.06	25.55
	12H	25.16	25.71	25.67	26.20	26.76	24.12	24.66	24.63	25.16	25.72
12H	4H	24.01	24.74	24.49	25.22	25.69	23.07	23.80	23.55	24.28	24.75
	6H	24.70	25.31	25.21	25.82	26.30	23.73	24.34	24.24	24.85	25.34
	8H	25.05	25.59	25.55	26.08	26.64	24.07	24.61	24.58	25.10	25.66