

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: P845451

Luminaire Tested: SQ2R-BBM-100D-930-UNV-STD-W-4

Issue Date: 6/14/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P845451  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P559649)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/14/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2R-BBM-100D-930-UNV-STD-W-4  
Description: CONTINUA SQ2 RECESSED, DISCREET OPTICS - BLACK BAFFLE, WIDE 80-DEGREE OPTIC  
1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

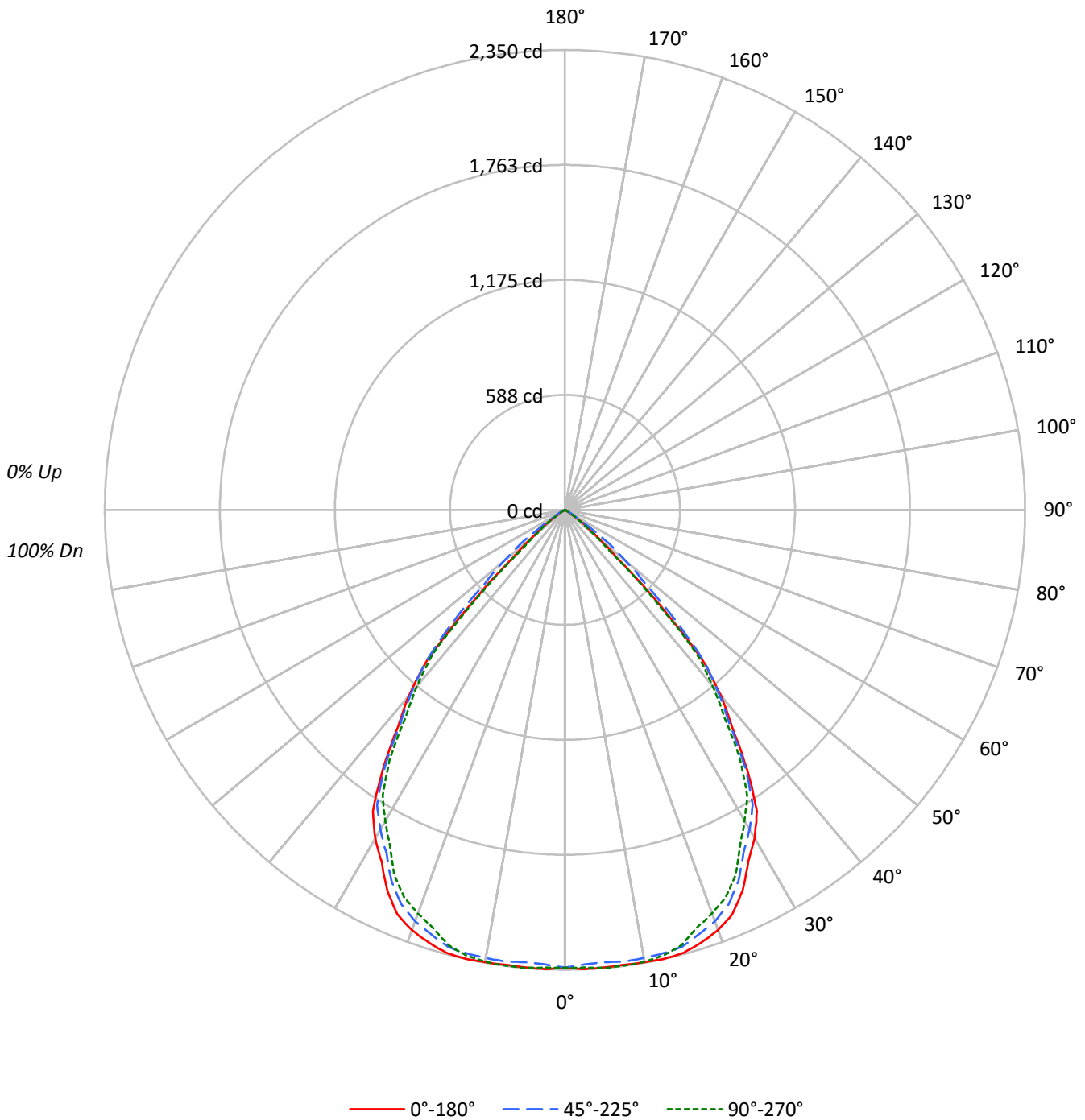
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3492.6 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 34.9  
Input Voltage (V): 120  
Input Current (Ain): 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

TEST NUMBER: P845451

CATALOG NUMBER: SQ2R-BBM-100D-930-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P845451

CATALOG NUMBER: SQ2R-BBM-100D-930-UNV-STD-W-4

**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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84	84	84
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76	76	76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70	70	70
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	60	58	58	58
7	78	67	61	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53	53	53
8	73	63	56	51	72	62	55	51	61	55	51	60	54	51	59	54	50	49	49	49
9	69	58	52	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45	45	45
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	47	43	42	42	42

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	37772	37772	37772
5°	38029	37606	38086
10°	38469	38126	38441
15°	39163	38639	38465
20°	39270	38433	37716
25°	38238	37308	36718
30°	36124	35153	34211
35°	32022	31643	30752
40°	26140	25773	24746
45°	15410	18189	14337
50°	5200	10135	4632
55°	1762	3623	1861
60°	168	1066	55
65°	0	65	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 18189 cd/sqm



TEST NUMBER: P845451

CATALOG NUMBER: SQ2R-BBM-100D-930-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.5	6.4
10°-20°	654.3	18.7
20°-30°	962.9	27.6
30°-40°	983.8	28.2
40°-50°	565.6	16.2
50°-60°	98.9	2.8
60°-70°	3.6	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	1840.7	52.7
0°-40°	2824.5	80.9
0°-60°	3489.0	99.9
0°-90°	3492.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3492.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2339	2339	2339	2339	2339	
5°	2346	2341	2320	2353	2350	224
15°	2343	2363	2312	2313	2301	660
25°	2146	2165	2094	2071	2061	981
35°	1625	1633	1605	1579	1560	1002
45°	675	786	797	755	628	528
55°	63	74	129	73	66	71
65°	0	0	2	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P845451

CATALOG NUMBER: SQ2R-BBM-100D-930-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2339.4	2339.4	2339.4	2339.4	2339.4
2.5°	2349.2	2343.8	2325.5	2346.2	2340.8
5°	2346.4	2341.4	2320.3	2353.4	2349.9
7.5°	2345.0	2341.0	2326.9	2355.6	2348.8
10°	2346.4	2346.4	2325.5	2351.4	2344.7
12.5°	2349.2	2356.0	2321.3	2341.7	2332.1
15°	2342.9	2363.3	2311.6	2313.0	2301.2
17.5°	2317.5	2345.0	2274.4	2257.7	2239.6
20°	2285.5	2314.4	2236.8	2210.4	2195.1
22.5°	2236.8	2264.3	2182.5	2160.3	2143.6
25°	2146.4	2165.2	2094.2	2071.4	2061.1
27.5°	2028.1	2037.7	1975.9	1952.3	1935.2
30°	1937.6	1937.6	1885.5	1858.9	1835.0
32.5°	1824.9	1819.5	1785.3	1754.5	1732.1
35°	1624.6	1633.1	1605.4	1579.0	1560.2
37.5°	1403.0	1411.1	1382.8	1352.5	1339.7
40°	1240.2	1246.9	1222.8	1191.1	1174.1
42.5°	1039.8	1076.5	1054.4	1019.8	997.3
45°	674.9	785.5	796.6	755.4	627.9
47.5°	351.7	467.4	552.4	422.0	295.7
50°	207.0	281.8	403.5	230.3	184.4
52.5°	133.2	165.9	283.9	147.3	124.5
55°	62.6	74.4	128.7	72.9	66.1
57.5°	23.3	34.8	58.1	35.3	25.4
60°	5.2	15.5	33.0	10.3	1.7
62.5°	1.0	4.5	19.1	2.1	0.3
65°	0.0	0.0	1.7	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P845451

CATALOG NUMBER: SQ2R-BBM-100D-930-UNV-STD-W-4

**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	4.65	5.78	5.01	6.09	6.41	4.25	5.38	4.61	5.69	6.00
	3H	4.48	5.47	4.86	5.80	6.17	4.08	5.07	4.46	5.40	5.77
	4H	4.39	5.31	4.80	5.66	6.05	3.99	4.90	4.39	5.26	5.64
	6H	4.30	5.13	4.71	5.50	5.90	3.89	4.73	4.31	5.10	5.50
	8H	4.24	5.03	4.68	5.42	5.83	3.84	4.63	4.27	5.02	5.43
	12H	4.19	4.94	4.62	5.32	5.76	3.79	4.54	4.22	4.92	5.35
4H	2H	4.40	5.32	4.81	5.67	6.06	4.00	4.91	4.40	5.27	5.65
	3H	4.23	4.96	4.64	5.37	5.77	3.82	4.56	4.24	4.97	5.37
	4H	4.12	4.77	4.55	5.19	5.64	3.72	4.37	4.15	4.79	5.24
	6H	4.02	4.57	4.48	5.02	5.50	3.61	4.17	4.08	4.62	5.09
	8H	3.95	4.47	4.42	4.92	5.39	3.55	4.07	4.02	4.52	4.99
	12H	3.89	4.34	4.38	4.83	5.31	3.49	3.94	3.98	4.43	4.90
8H	4H	3.95	4.47	4.42	4.92	5.39	3.55	4.07	4.02	4.52	4.99
	6H	3.83	4.25	4.33	4.75	5.23	3.42	3.85	3.93	4.35	4.83
	8H	3.75	4.13	4.28	4.65	5.15	3.35	3.73	3.88	4.25	4.75
	12H	3.70	4.03	4.21	4.53	5.10	3.29	3.63	3.81	4.13	4.70
12H	4H	3.89	4.34	4.38	4.83	5.31	3.49	3.94	3.98	4.43	4.90
	6H	3.75	4.13	4.28	4.65	5.15	3.35	3.73	3.88	4.25	4.75
	8H	3.70	4.03	4.21	4.53	5.10	3.29	3.63	3.81	4.13	4.70