

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: P845668

Luminaire Tested: SQ2R-WBM-100D-935-UNV-STD-W-4

Issue Date: 6/14/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P845668  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P559733)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/14/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2R-WBM-100D-935-UNV-STD-W-4  
Description: CONTINUA SQ2 RECESSED, DISCREET OPTICS - WHITE BAFFLE, WIDE 80-DEGREE OPTIC  
1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

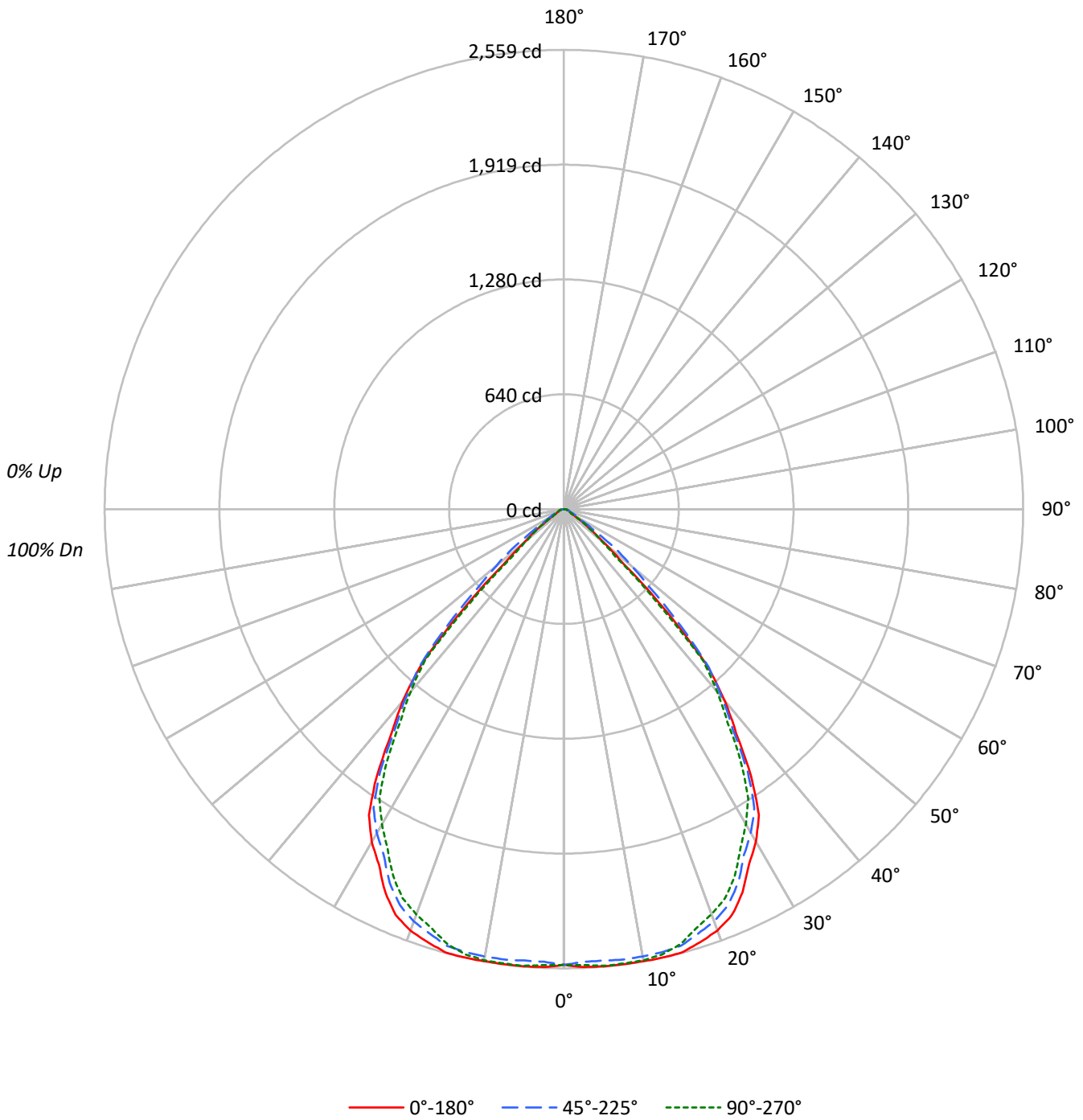
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3997.1 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.19 / 1.17  
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

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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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91				91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83				83
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75				75
4	93	84	78	73	91	83	77	72	81	75	71	78	74	70	77	73	70	68				68
5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	62				62
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56				56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51				51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47				47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43				43
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40				40

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

	0°	45°	90°
0°	41004	41004	41004
5°	41456	40924	41397
10°	41935	41487	41845
15°	42725	42114	41932
20°	42947	42007	41285
25°	41961	40923	40142
30°	39903	38850	37796
35°	35863	35179	33922
40°	29472	28856	28011
45°	18648	20938	16817
50°	7234	12318	6639
55°	3491	5593	3541
60°	1647	2767	1531
65°	1463	1601	1394
70°	1463	1463	1378
75°	1366	1478	1254
80°	1358	1358	1190
85°	1352	1352	1019

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 20938 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.2	6.1
10°-20°	713.5	17.8
20°-30°	1056.5	26.4
30°-40°	1094.4	27.4
40°-50°	657.8	16.5
50°-60°	157.3	3.9
60°-70°	42.9	1.1
70°-80°	23.9	0.6
80°-90°	7.6	0.2
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°	2013.2	50.4
0°-40°	3107.6	77.7
0°-60°	3922.7	98.1
0°-90°	3997.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3997.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2540	2540	2540	2540	2540	
5°	2558	2549	2525	2558	2554	244
15°	2556	2572	2520	2521	2509	720
25°	2355	2377	2297	2268	2253	1077
35°	1820	1816	1785	1751	1721	1119
45°	817	917	917	868	736	625
55°	124	142	199	133	126	127
65°	38	40	42	38	36	39
75°	22	24	24	22	20	24
85°	7	7	7	7	6	8
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2539.6	2539.6	2539.6	2539.6	2539.6
2.5°	2554.2	2545.6	2525.0	2548.1	2542.5
5°	2557.8	2548.9	2525.0	2557.8	2554.2
7.5°	2557.8	2552.2	2531.9	2559.1	2553.8
10°	2557.8	2557.8	2530.5	2557.6	2552.3
12.5°	2559.3	2566.4	2529.0	2548.9	2540.7
15°	2556.0	2572.0	2519.5	2521.0	2508.6
17.5°	2528.6	2553.6	2481.2	2466.7	2449.5
20°	2499.5	2524.4	2444.8	2417.1	2402.8
22.5°	2448.4	2474.9	2389.4	2363.1	2347.4
25°	2355.4	2376.8	2297.1	2267.6	2253.3
27.5°	2232.2	2241.9	2172.8	2145.1	2129.4
30°	2140.3	2138.5	2083.8	2048.6	2027.3
32.5°	2022.2	2024.7	1974.4	1940.5	1912.1
35°	1819.5	1815.8	1784.8	1751.3	1721.0
37.5°	1577.7	1580.3	1547.1	1511.5	1499.7
40°	1398.3	1403.6	1369.1	1330.9	1329.0
42.5°	1179.5	1219.1	1194.1	1154.2	1146.7
45°	816.7	916.7	917.0	868.5	736.5
47.5°	454.3	579.0	653.8	515.6	385.4
50°	288.0	370.1	490.4	308.8	264.3
52.5°	204.9	245.6	363.5	220.4	192.9
55°	124.0	141.8	198.7	132.9	125.8
57.5°	75.8	91.5	116.3	90.1	75.1
60°	51.0	65.3	85.7	58.2	47.4
62.5°	45.2	49.4	66.7	46.7	43.0
65°	38.3	40.1	41.9	38.3	36.5
67.5°	33.9	35.7	35.4	33.9	32.1
70°	31.0	32.8	31.0	31.0	29.2
72.5°	28.1	28.4	28.1	26.6	26.3
75°	21.9	23.7	23.7	21.9	20.1
77.5°	17.5	19.0	17.5	17.5	15.7
80°	14.6	14.6	14.6	14.6	12.8
82.5°	11.7	11.7	11.7	11.7	9.8
85°	7.3	7.3	7.3	7.3	5.5
87.5°	2.9	2.9	2.9	1.5	1.5
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	10.02	11.20	10.38	11.51	11.83	9.62	10.80	9.98	11.11	11.43
	3H	10.56	11.60	10.94	11.93	12.29	10.16	11.20	10.55	11.53	11.90
	4H	10.83	11.79	11.23	12.14	12.53	10.42	11.38	10.82	11.73	12.12
	6H	11.05	11.93	11.47	12.31	12.70	10.62	11.50	11.04	11.88	12.27
	8H	11.14	11.97	11.57	12.36	12.77	10.69	11.52	11.12	11.91	12.32
	12H	11.20	11.99	11.63	12.37	12.80	10.72	11.51	11.16	11.90	12.33
4H	2H	10.08	11.04	10.48	11.39	11.78	9.71	10.67	10.12	11.02	11.41
	3H	10.83	11.61	11.25	12.02	12.42	10.48	11.25	10.89	11.66	12.06
	4H	11.23	11.92	11.67	12.34	12.79	10.85	11.54	11.29	11.96	12.41
	6H	11.59	12.18	12.05	12.63	13.10	11.19	11.79	11.66	12.24	12.71
	8H	11.72	12.27	12.19	12.72	13.19	11.31	11.86	11.78	12.31	12.78
	12H	11.82	12.31	12.31	12.79	13.27	11.38	11.86	11.87	12.35	12.83
8H	4H	11.33	11.88	11.80	12.33	12.80	10.98	11.53	11.45	11.98	12.45
	6H	11.79	12.24	12.30	12.74	13.22	11.44	11.89	11.95	12.39	12.87
	8H	11.99	12.40	12.52	12.92	13.41	11.63	12.03	12.16	12.55	13.05
	12H	12.18	12.54	12.70	13.03	13.61	11.78	12.14	12.30	12.64	13.21
12H	4H	11.31	11.79	11.80	12.28	12.76	10.97	11.45	11.46	11.94	12.41
	6H	11.80	12.20	12.33	12.72	13.22	11.46	11.86	11.99	12.38	12.88
	8H	12.05	12.41	12.57	12.91	13.48	11.70	12.06	12.22	12.56	13.13