

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: P845661

Luminaire Tested: SQ2R-WBM-050D-930-UNV-STD-W-4

Issue Date: 6/14/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P845661  
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-050D-930-UNV-STD-W-4  
Description: CONTINUA SQ2 RECESSED, DISCREET OPTICS - WHITE BAFFLE, WIDE 80-DEGREE OPTIC  
500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

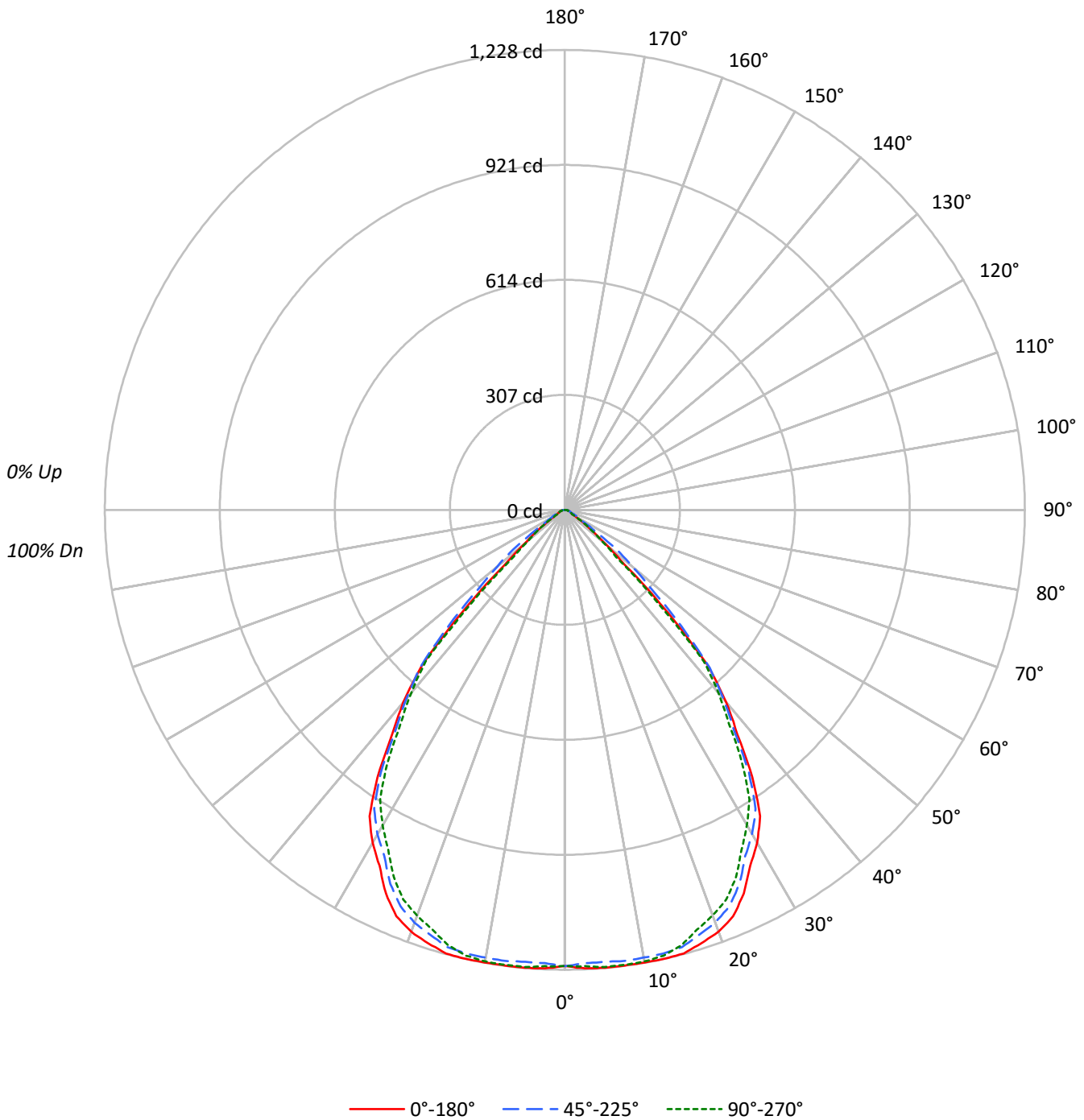
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1917.7 lumens  
Efficiency: N/A  
Efficacy: 115.5 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): 16.6  
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				
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91				
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83				
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75				
4	93	84	78	73	91	83	77	72	81	75	71	78	74	70	77	73	70	68				
5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	62				
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56				
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51				
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47				
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43				
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40				

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

	0°	45°	90°
0°	19672	19672	19672
5°	19890	19634	19861
10°	20120	19905	20077
15°	20498	20206	20119
20°	20605	20155	19807
25°	20133	19634	19260
30°	19145	18640	18135
35°	17205	16878	16275
40°	14140	13845	13441
45°	8949	10047	8069
50°	3471	5910	3185
55°	1675	2683	1700
60°	791	1327	733
65°	703	768	669
70°	703	703	661
75°	655	711	599
80°	651	651	567
85°	648	648	482

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 10047 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.7	6.1
10°-20°	342.3	17.8
20°-30°	506.9	26.4
30°-40°	525.1	27.4
40°-50°	315.6	16.5
50°-60°	75.5	3.9
60°-70°	20.6	1.1
70°-80°	11.5	0.6
80°-90°	3.7	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°	965.9	50.4
0°-40°	1491.0	77.7
0°-60°	1882.1	98.1
0°-90°	1917.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1917.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1218	1218	1218	1218	1218	
5°	1227	1223	1211	1227	1225	117
15°	1226	1234	1209	1210	1204	345
25°	1130	1140	1102	1088	1081	517
35°	873	871	856	840	826	537
45°	392	440	440	417	353	300
55°	60	68	95	64	60	61
65°	18	19	20	18	18	19
75°	10	11	11	10	10	11
85°	4	4	4	4	3	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1218.4	1218.4	1218.4	1218.4	1218.4
2.5°	1225.4	1221.3	1211.4	1222.6	1219.8
5°	1227.2	1222.9	1211.4	1227.2	1225.4
7.5°	1227.2	1224.5	1214.8	1227.8	1225.3
10°	1227.2	1227.2	1214.1	1227.1	1224.6
12.5°	1227.9	1231.3	1213.4	1222.9	1219.0
15°	1226.3	1234.0	1208.8	1209.5	1203.6
17.5°	1213.2	1225.2	1190.5	1183.5	1175.2
20°	1199.2	1211.2	1173.0	1159.7	1152.8
22.5°	1174.7	1187.4	1146.4	1133.8	1126.3
25°	1130.1	1140.3	1102.1	1087.9	1081.1
27.5°	1071.0	1075.6	1042.5	1029.2	1021.6
30°	1026.9	1026.0	999.8	982.9	972.7
32.5°	970.2	971.4	947.3	931.0	917.4
35°	872.9	871.2	856.3	840.2	825.7
37.5°	757.0	758.2	742.3	725.2	719.5
40°	670.9	673.4	656.9	638.5	637.7
42.5°	565.9	584.9	572.9	553.8	550.2
45°	391.9	439.8	440.0	416.7	353.4
47.5°	218.0	277.8	313.7	247.4	184.9
50°	138.2	177.6	235.3	148.2	126.8
52.5°	98.3	117.8	174.4	105.8	92.5
55°	59.5	68.1	95.3	63.8	60.4
57.5°	36.4	43.9	55.8	43.2	36.0
60°	24.5	31.3	41.1	27.9	22.7
62.5°	21.7	23.7	32.0	22.4	20.6
65°	18.4	19.2	20.1	18.4	17.5
67.5°	16.3	17.1	17.0	16.3	15.4
70°	14.9	15.7	14.9	14.9	14.0
72.5°	13.5	13.6	13.5	12.8	12.6
75°	10.5	11.4	11.4	10.5	9.6
77.5°	8.4	9.1	8.4	8.4	7.5
80°	7.0	7.0	7.0	7.0	6.1
82.5°	5.6	5.6	5.6	5.6	4.7
85°	3.5	3.5	3.5	3.5	2.6
87.5°	1.4	1.4	1.4	0.7	0.7
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	7.47	8.65	7.84	8.96	9.28	7.07	8.25	7.43	8.56	8.87
	3H	8.01	9.05	8.39	9.38	9.74	7.61	8.65	7.99	8.98	9.35
	4H	8.28	9.24	8.68	9.59	9.98	7.86	8.82	8.27	9.18	9.56
	6H	8.50	9.38	8.92	9.75	10.15	8.07	8.95	8.49	9.32	9.72
	8H	8.59	9.42	9.02	9.81	10.21	8.14	8.96	8.57	9.35	9.76
	12H	8.64	9.44	9.08	9.82	10.25	8.17	8.96	8.60	9.34	9.77
4H	2H	7.53	8.49	7.93	8.84	9.23	7.16	8.12	7.56	8.47	8.86
	3H	8.28	9.06	8.70	9.47	9.87	7.93	8.70	8.34	9.11	9.51
	4H	8.68	9.37	9.12	9.79	10.24	8.30	8.99	8.74	9.41	9.86
	6H	9.04	9.63	9.50	10.08	10.55	8.64	9.23	9.11	9.68	10.15
	8H	9.17	9.72	9.64	10.17	10.64	8.75	9.30	9.22	9.75	10.23
	12H	9.27	9.75	9.76	10.24	10.72	8.82	9.31	9.31	9.79	10.27
8H	4H	8.78	9.33	9.25	9.78	10.25	8.43	8.98	8.90	9.43	9.90
	6H	9.24	9.69	9.75	10.19	10.67	8.89	9.33	9.39	9.83	10.32
	8H	9.44	9.85	9.97	10.36	10.86	9.07	9.48	9.60	10.00	10.49
	12H	9.63	9.99	10.15	10.48	11.06	9.23	9.58	9.74	10.08	10.66
12H	4H	8.76	9.24	9.25	9.73	10.21	8.42	8.90	8.91	9.39	9.86
	6H	9.25	9.65	9.78	10.17	10.67	8.90	9.31	9.43	9.83	10.32
	8H	9.50	9.86	10.02	10.36	10.93	9.15	9.51	9.67	10.00	10.58