

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: P688981

Luminaire Tested: SQ4R-PW1-075D-93050-1-UNV-STD-W-4\_5000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688981  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-35)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PW1-075D-93050-1-UNV-STD-W-4\_5000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
750 LUMENS PER FOOT  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3069.4 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.2 / 1.29  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

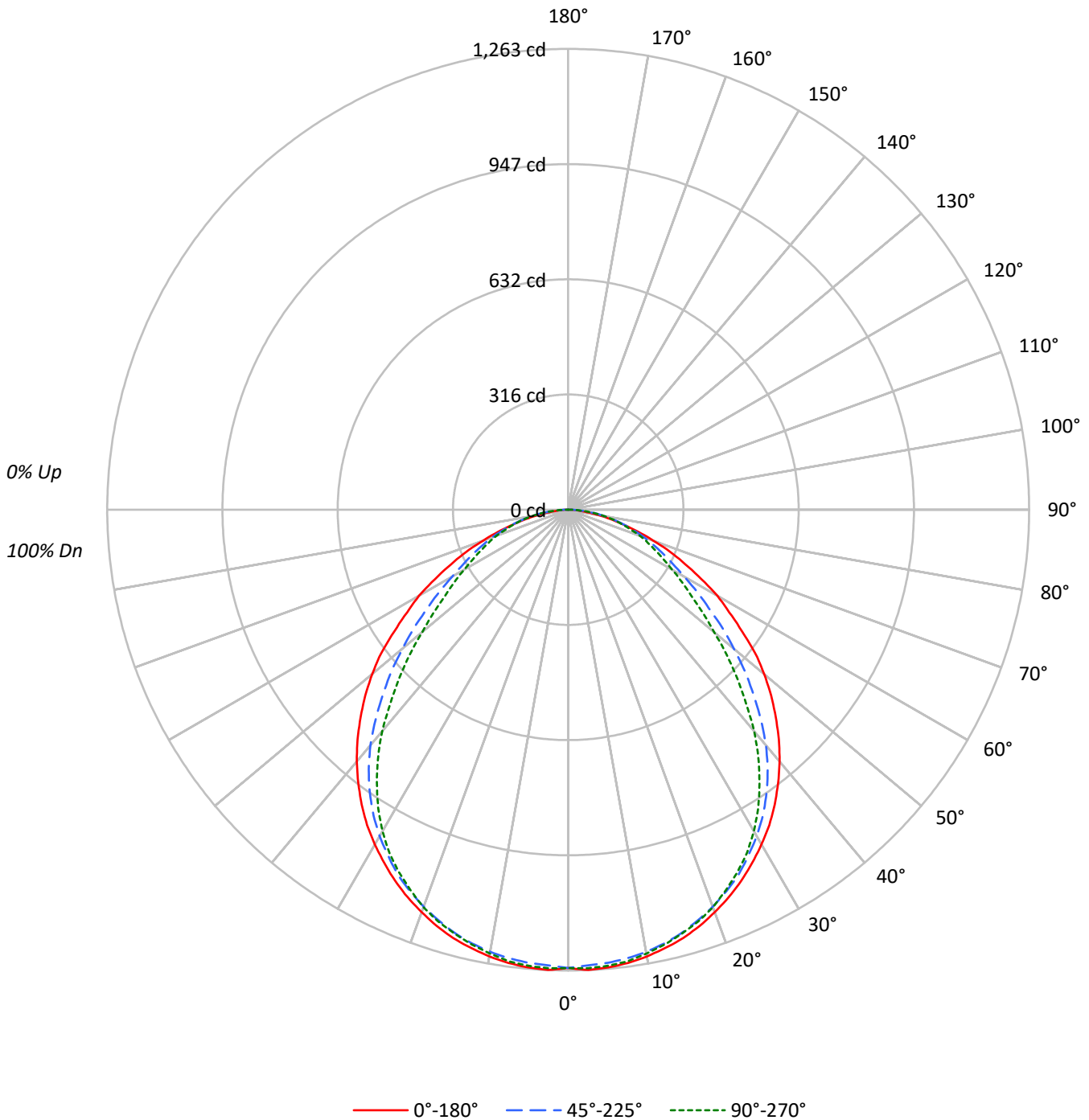
Input Watts (W): 32.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20			20				20			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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85	85	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72	72	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62	62	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54	54	54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47	47	47
6	72	59	51	45	70	59	50	44	57	49	44	55	49	44	54	48	43	41	41	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37	37	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33	33	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30	30	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27	27	27

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

	0°	45°	90°
0°	12094	12094	12094
5°	12172	12046	12125
10°	12154	12028	12075
15°	12119	11973	11989
20°	12027	11861	11877
25°	11921	11732	11647
30°	11775	11488	11309
35°	11595	11139	10741
40°	11323	10593	9964
45°	10948	9782	8926
50°	10496	8876	7811
55°	9757	7887	6910
60°	9079	7057	6342
65°	8055	6547	5996
70°	7001	6226	5908
75°	5766	5885	5647
80°	4563	5550	5550
85°	3391	4993	5170

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10948 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.2	3.9
10°-20°	340.4	11.1
20°-30°	509.9	16.6
30°-40°	592.5	19.3
40°-50°	559.0	18.2
50°-60°	436.1	14.2
60°-70°	296.1	9.6
70°-80°	166.7	5.4
80°-90°	49.5	1.6
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°	969.5	31.6
0°-40°	1562.0	50.9
0°-60°	2557.1	83.3
0°-90°	3069.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3069.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1256	1256	1256	1256	1256	
5°	1260	1256	1246	1256	1255	120
15°	1216	1211	1201	1208	1203	343
25°	1122	1117	1104	1101	1096	517
35°	987	977	948	927	914	616
45°	804	780	718	673	656	620
55°	581	547	470	425	412	522
65°	354	321	287	270	263	353
75°	155	162	158	152	152	169
85°	31	44	45	45	47	37
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1256.2	1256.2	1256.2	1256.2	1256.2
2.5°	1262.7	1259.5	1249.8	1259.5	1257.8
5°	1259.5	1256.2	1246.5	1256.2	1254.6
7.5°	1253.0	1251.4	1240.1	1249.8	1248.2
10°	1243.3	1241.7	1230.4	1238.5	1235.2
12.5°	1230.4	1228.8	1217.5	1223.9	1220.7
15°	1215.9	1211.0	1201.3	1207.8	1202.9
17.5°	1196.5	1191.6	1180.3	1185.2	1183.6
20°	1173.9	1169.0	1157.7	1162.6	1159.3
22.5°	1149.7	1144.8	1131.9	1133.5	1128.7
25°	1122.2	1117.4	1104.4	1101.2	1096.4
27.5°	1091.5	1088.3	1068.9	1065.7	1060.8
30°	1059.2	1054.4	1033.4	1026.9	1017.3
32.5°	1025.3	1015.6	993.0	980.1	968.8
35°	986.6	976.9	947.8	926.8	913.9
37.5°	944.6	930.1	897.8	868.7	855.8
40°	901.0	884.8	842.9	804.1	792.8
42.5°	854.2	834.8	781.5	741.1	721.8
45°	804.1	779.9	718.5	673.3	655.6
47.5°	754.1	723.4	657.2	608.7	589.4
50°	700.8	663.6	592.6	540.9	521.5
52.5°	645.9	605.5	532.8	479.6	465.0
55°	581.3	547.4	469.9	424.7	411.7
57.5°	523.2	486.0	418.2	379.5	369.8
60°	471.5	426.3	366.5	337.5	329.4
62.5°	411.7	371.4	324.6	301.9	293.9
65°	353.6	321.3	287.4	269.7	263.2
67.5°	303.6	276.1	253.5	239.0	235.7
70°	248.7	234.1	221.2	209.9	209.9
72.5°	201.8	197.0	188.9	182.5	177.6
75°	155.0	161.5	158.2	151.8	151.8
77.5°	117.9	127.6	129.2	125.9	127.6
80°	82.3	96.9	100.1	98.5	100.1
82.5°	51.7	69.4	72.7	72.7	74.3
85°	30.7	43.6	45.2	45.2	46.8
87.5°	12.9	21.0	22.6	22.6	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)