

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: P688666

Luminaire Tested: SQ4R-PC3-075D-93050-1-UNV-STD-W-4\_3500K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688666  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PC3-075D-93050-1-UNV-STD-W-4\_3500K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
750 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3049.3 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

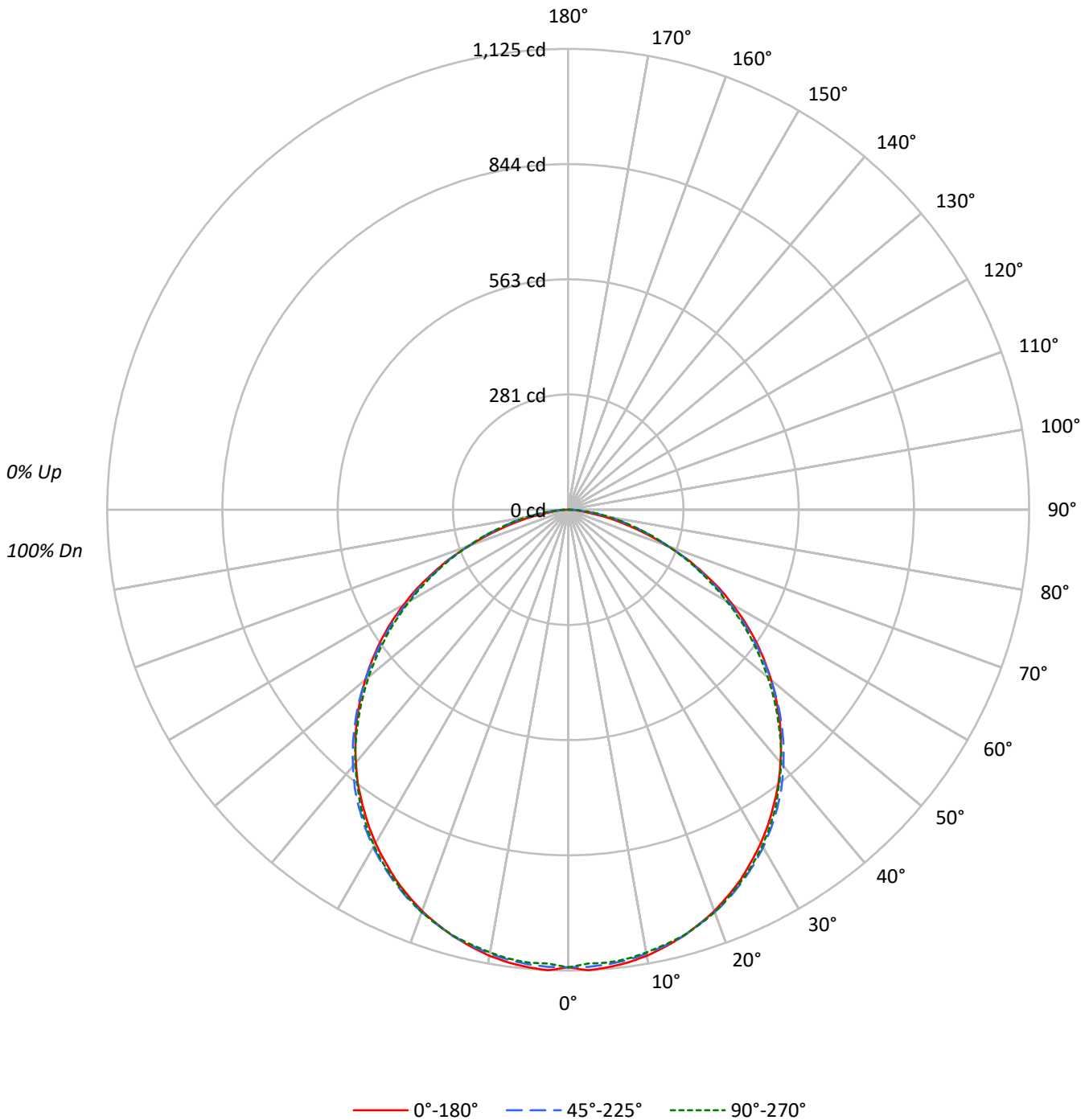
Input Watts (W): 33  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P688666

CATALOG NUMBER: SQ4R-PC3-075D-93050-1-UNV-STD-W-4\_3500K

### Luminous Intensity Polar Plot



TEST NUMBER: P688666

CATALOG NUMBER: SQ4R-PC3-075D-93050-1-UNV-STD-W-4\_3500K

**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	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	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51					51			
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44					44			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39					39			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

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

	0°	45°	90°
0°	10755	10755	10755
5°	10835	10766	10726
10°	10809	10758	10728
15°	10752	10752	10742
20°	10682	10713	10713
25°	10581	10658	10625
30°	10452	10579	10533
35°	10297	10454	10381
40°	10127	10269	10166
45°	9943	10013	9857
50°	9683	9683	9527
55°	9374	9253	9114
60°	8923	8744	8603
65°	8246	8082	8012
70°	7220	7279	7251
75°	5810	6424	6465
80°	4130	5450	5505
85°	2519	4573	4573

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 10013 cd/sqm

TEST NUMBER: P688666

CATALOG NUMBER: SQ4R-PC3-075D-93050-1-UNV-STD-W-4\_3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.8	3.5
10°-20°	303.5	10.0
20°-30°	459.7	15.1
30°-40°	551.2	18.1
40°-50°	562.0	18.4
50°-60°	490.5	16.1
60°-70°	351.2	11.5
70°-80°	180.4	5.9
80°-90°	45.1	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°	869.0	28.5
0°-40°	1420.2	46.6
0°-60°	2472.6	81.1
0°-90°	3049.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3049.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1117	1117	1117	1117	1117	
5°	1121	1110	1114	1111	1110	107
15°	1079	1070	1079	1079	1078	304
25°	996	989	1003	1000	1000	459
35°	876	874	890	883	883	548
45°	730	728	735	726	724	562
55°	558	551	551	543	543	498
65°	362	354	355	352	352	359
75°	156	163	173	174	174	168
85°	23	35	41	42	41	31
90°	0	0	0	0	0	

TEST NUMBER: P688666

CATALOG NUMBER: SQ4R-PC3-075D-93050-1-UNV-STD-W-4\_3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1117.1	1117.1	1117.1	1117.1	1117.1
2.5°	1125.4	1113.0	1117.1	1114.0	1108.8
5°	1121.2	1109.9	1114.0	1110.9	1109.9
7.5°	1115.0	1103.7	1108.8	1106.8	1105.7
10°	1105.7	1094.3	1100.5	1098.5	1097.4
12.5°	1093.3	1083.0	1090.2	1088.1	1088.1
15°	1078.8	1069.5	1078.8	1078.8	1077.8
17.5°	1061.2	1053.0	1062.3	1063.3	1062.3
20°	1042.6	1033.3	1045.7	1044.7	1045.7
22.5°	1019.9	1012.6	1026.1	1023.0	1024.0
25°	996.1	988.8	1003.3	1000.2	1000.2
27.5°	968.2	963.0	978.5	975.4	975.4
30°	940.2	935.1	951.6	947.5	947.5
32.5°	909.2	906.1	921.6	916.4	916.4
35°	876.1	874.0	889.5	883.3	883.3
37.5°	843.0	840.9	855.4	848.2	845.1
40°	805.8	804.7	817.1	808.9	808.9
42.5°	768.5	767.5	777.8	767.5	767.5
45°	730.3	728.2	735.4	726.1	724.0
47.5°	688.9	686.8	692.0	681.6	680.6
50°	646.5	644.4	646.5	637.2	636.1
52.5°	603.0	598.9	598.9	589.6	589.6
55°	558.5	551.3	551.3	543.0	543.0
57.5°	512.0	502.7	503.7	496.5	495.5
60°	463.4	453.0	454.1	447.9	446.8
62.5°	415.8	403.4	406.5	399.3	399.3
65°	362.0	353.7	354.8	351.7	351.7
67.5°	312.4	304.1	309.3	306.2	306.2
70°	256.5	251.3	258.6	258.6	257.6
72.5°	204.8	205.8	215.1	215.1	216.2
75°	156.2	163.4	172.7	173.8	173.8
77.5°	111.7	124.1	134.5	134.5	134.5
80°	74.5	89.0	98.3	100.3	99.3
82.5°	44.5	60.0	67.2	69.3	68.3
85°	22.8	35.2	41.4	42.4	41.4
87.5°	8.3	17.6	20.7	20.7	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)