

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: P688481

Luminaire Tested: SQ4R-PC3-100D-940-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688481  
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-PC3-100D-940-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3340.6 lumens  
Efficiency: N/A  
Efficacy: 90.3 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

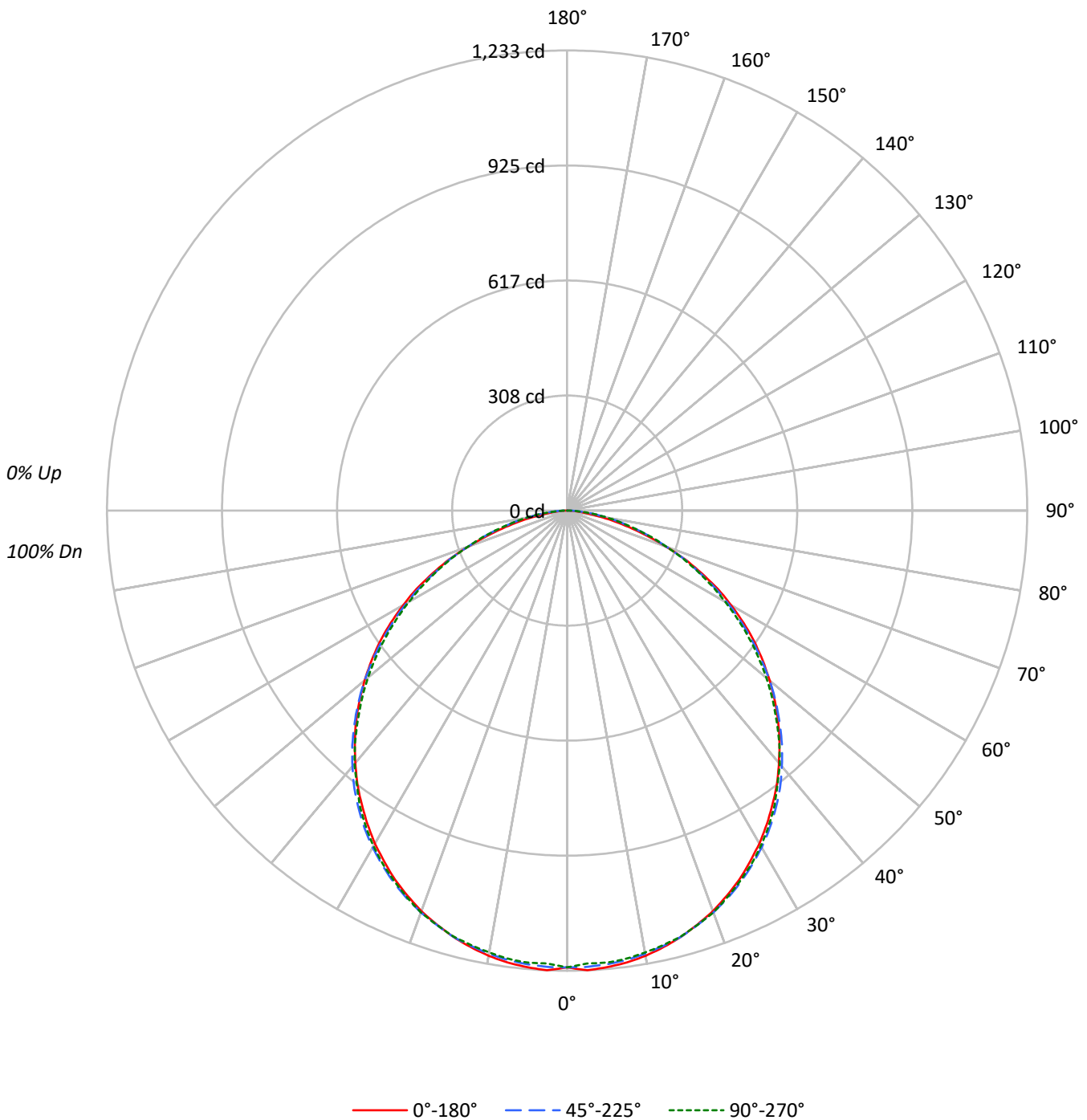
Input Watts (W): 37  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92		94	92	89		91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64		73	68	63		71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48		59	52	47		57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

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

	0°	45°	90°
0°	11782	11782	11782
5°	11870	11794	11751
10°	11841	11787	11754
15°	11780	11780	11768
20°	11702	11737	11737
25°	11591	11676	11640
30°	11450	11589	11539
35°	11280	11453	11373
40°	11093	11251	11136
45°	10892	10970	10800
50°	10607	10607	10438
55°	10271	10138	9985
60°	9776	9579	9425
65°	9035	8855	8777
70°	7910	7974	7943
75°	6364	7038	7082
80°	4524	5966	6032
85°	2750	5004	5004

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 10970 cd/sqm

TEST NUMBER: P688481

CATALOG NUMBER: SQ4R-PC3-100D-940-1-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.9	3.5
10°-20°	332.5	10.0
20°-30°	503.6	15.1
30°-40°	603.8	18.1
40°-50°	615.6	18.4
50°-60°	537.4	16.1
60°-70°	384.7	11.5
70°-80°	197.6	5.9
80°-90°	49.4	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°	952.0	28.5
0°-40°	1555.8	46.6
0°-60°	2708.8	81.1
0°-90°	3340.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3340.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1224	1224	1224	1224	1224	
5°	1228	1216	1220	1217	1216	117
15°	1182	1172	1182	1182	1181	333
25°	1091	1083	1099	1096	1096	502
35°	960	958	974	968	968	601
45°	800	798	806	796	793	616
55°	612	604	604	595	595	546
65°	397	388	389	385	385	393
75°	171	179	189	190	190	184
85°	25	38	45	46	45	34
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1223.8	1223.8	1223.8	1223.8	1223.8
2.5°	1232.9	1219.3	1223.8	1220.4	1214.7
5°	1228.3	1215.9	1220.4	1217.0	1215.9
7.5°	1221.5	1209.1	1214.7	1212.5	1211.3
10°	1211.3	1198.9	1205.7	1203.4	1202.3
12.5°	1197.7	1186.4	1194.3	1192.1	1192.1
15°	1181.9	1171.7	1181.9	1181.9	1180.7
17.5°	1162.6	1153.6	1163.7	1164.9	1163.7
20°	1142.2	1132.0	1145.6	1144.5	1145.6
22.5°	1117.3	1109.4	1124.1	1120.7	1121.8
25°	1091.2	1083.3	1099.2	1095.8	1095.8
27.5°	1060.6	1055.0	1072.0	1068.6	1068.6
30°	1030.0	1024.4	1042.5	1038.0	1038.0
32.5°	996.0	992.6	1009.6	1004.0	1004.0
35°	959.8	957.5	974.5	967.7	967.7
37.5°	923.5	921.3	937.1	929.2	925.8
40°	882.7	881.6	895.2	886.1	886.1
42.5°	841.9	840.8	852.1	840.8	840.8
45°	800.0	797.7	805.7	795.5	793.2
47.5°	754.7	752.4	758.1	746.7	745.6
50°	708.2	706.0	708.2	698.0	696.9
52.5°	660.6	656.1	656.1	645.9	645.9
55°	611.9	604.0	604.0	594.9	594.9
57.5°	560.9	550.7	551.8	543.9	542.8
60°	507.7	496.3	497.5	490.7	489.5
62.5°	455.5	441.9	445.3	437.4	437.4
65°	396.6	387.5	388.7	385.3	385.3
67.5°	342.2	333.1	338.8	335.4	335.4
70°	281.0	275.4	283.3	283.3	282.2
72.5°	224.4	225.5	235.7	235.7	236.8
75°	171.1	179.0	189.2	190.4	190.4
77.5°	122.4	136.0	147.3	147.3	147.3
80°	81.6	97.5	107.6	109.9	108.8
82.5°	48.7	65.7	73.7	75.9	74.8
85°	24.9	38.5	45.3	46.5	45.3
87.5°	9.1	19.3	22.7	22.7	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)