

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: P688816

Luminaire Tested: SQ4R-PP3-075D-92765-1-UNV-STD-W-4\_4000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688816  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PP3-075D-92765-1-UNV-STD-W-4\_4000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
750 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2913.7 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

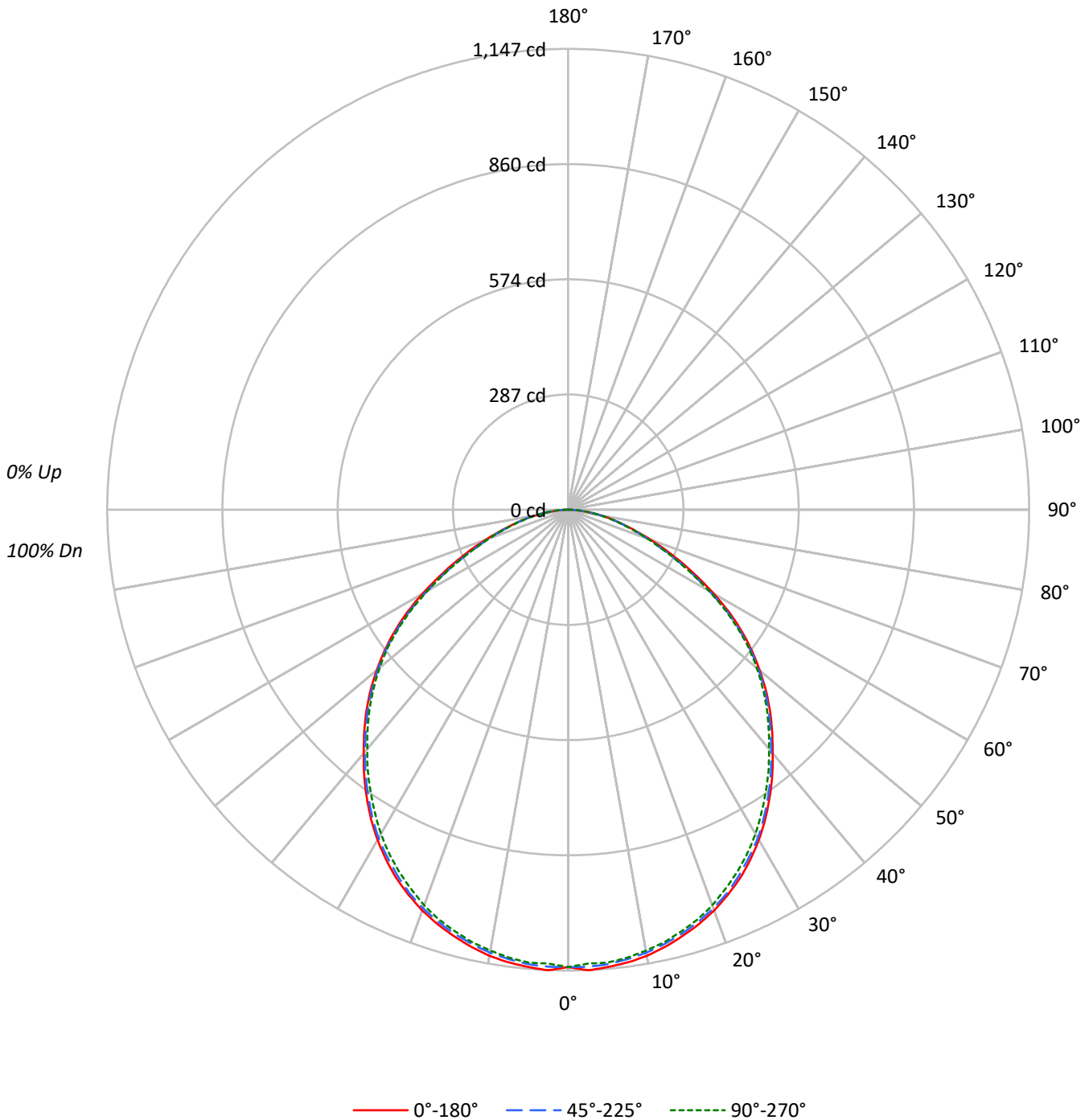
Input Watts (W): 32.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87					85				
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74					72				
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63					61				
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55					53				
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48					46				
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42					40				
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38					36				
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34					32				
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31					29				
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28					26				

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

	0°	45°	90°
0°	10961	10961	10961
5°	11041	10974	10935
10°	11022	10944	10895
15°	10950	10890	10830
20°	10876	10816	10734
25°	10748	10674	10567
30°	10549	10493	10360
35°	10273	10203	10073
40°	9943	9882	9769
45°	9672	9604	9509
50°	9325	9265	9175
55°	8842	8725	8659
60°	8050	7819	7781
65°	7091	6795	6773
70°	6122	5869	5869
75°	5271	5196	5122
80°	4646	4701	4591
85°	3634	3966	3966

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9672 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.7	3.7
10°-20°	307.6	10.6
20°-30°	460.7	15.8
30°-40°	540.3	18.5
40°-50°	542.0	18.6
50°-60°	462.8	15.9
60°-70°	300.8	10.3
70°-80°	150.6	5.2
80°-90°	41.3	1.4
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°	876.0	30.1
0°-40°	1416.3	48.6
0°-60°	2421.0	83.1
0°-90°	2913.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2913.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1138	1138	1138	1138	1138	
5°	1142	1132	1136	1132	1132	109
15°	1099	1088	1093	1089	1087	310
25°	1012	1000	1005	996	995	466
35°	874	865	868	858	857	546
45°	710	705	705	698	698	547
55°	527	525	520	517	516	469
65°	311	305	298	296	297	310
75°	142	142	140	139	138	153
85°	33	36	36	36	36	39
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1138.5	1138.5	1138.5	1138.5	1138.5
2.5°	1147.4	1135.5	1138.5	1136.5	1130.5
5°	1142.5	1131.5	1135.5	1131.5	1131.5
7.5°	1136.5	1124.5	1128.5	1124.5	1124.5
10°	1127.5	1115.5	1119.5	1115.5	1114.5
12.5°	1114.5	1102.5	1107.5	1102.5	1102.5
15°	1098.6	1087.6	1092.6	1088.6	1086.6
17.5°	1081.6	1069.6	1075.6	1070.6	1069.6
20°	1061.6	1049.7	1055.7	1047.7	1047.7
22.5°	1037.7	1025.7	1032.7	1021.7	1021.7
25°	1011.8	999.8	1004.8	995.8	994.8
27.5°	981.8	969.8	974.8	964.9	964.9
30°	948.9	937.9	943.9	932.9	931.9
32.5°	913.0	903.0	907.0	896.0	895.0
35°	874.1	865.1	868.1	858.1	857.1
37.5°	834.1	824.2	828.2	819.2	819.2
40°	791.2	785.3	786.3	779.3	777.3
42.5°	751.3	744.3	745.3	738.4	738.4
45°	710.4	705.4	705.4	698.4	698.4
47.5°	667.5	663.5	662.5	656.5	656.5
50°	622.6	619.6	618.6	613.6	612.6
52.5°	575.7	574.7	570.7	566.7	566.7
55°	526.8	524.8	519.8	516.9	515.9
57.5°	474.9	471.0	466.0	461.0	462.0
60°	418.1	414.1	406.1	404.1	404.1
62.5°	363.2	358.2	350.2	347.2	349.2
65°	311.3	305.3	298.3	296.3	297.3
67.5°	263.4	257.4	249.4	249.4	248.4
70°	217.5	214.5	208.5	208.5	208.5
72.5°	176.6	175.6	171.6	171.6	170.6
75°	141.7	141.7	139.7	138.7	137.7
77.5°	111.8	111.8	110.8	109.8	107.8
80°	83.8	85.8	84.8	83.8	82.8
82.5°	57.9	59.9	59.9	57.9	57.9
85°	32.9	35.9	35.9	35.9	35.9
87.5°	11.0	15.0	16.0	16.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)