

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: P688738

Luminaire Tested: SQ4R-PH1-075D-92765-1-UNV-STD-W-4\_4000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688738  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-36)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PH1-075D-92765-1-UNV-STD-W-4\_4000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE HEX 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: 2854.6 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.28  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

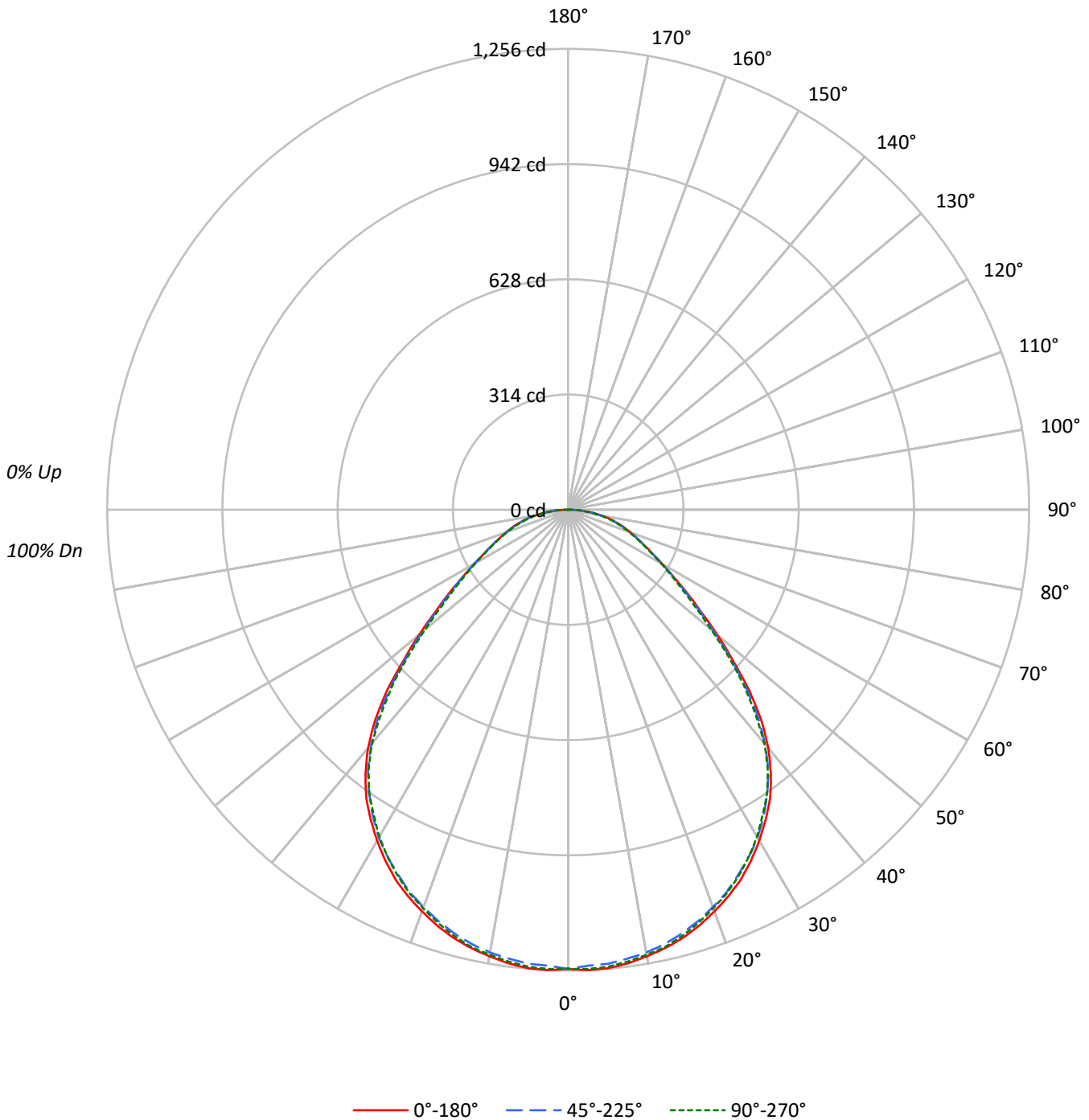
Input Watts (W): 32.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot



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

RF	20					20					20					20					20	
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				100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74				74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64				64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55				55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49				49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43				43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39				39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35				35
9	60	47	39	34	58	47	39	34	45	39	34	44	38	34	43	38	33	32				32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29				29

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

	0°	45°	90°
0°	12048	12048	12048
5°	12124	12005	12079
10°	12083	11977	12038
15°	12042	11918	11980
20°	11935	11809	11840
25°	11817	11652	11685
30°	11576	11474	11439
35°	11276	11112	11095
40°	10660	10485	10446
45°	9507	9318	9213
50°	7937	7775	7613
55°	6613	6534	6380
60°	5682	5711	5593
65°	5210	5173	5103
70°	5044	5002	4915
75°	5115	4999	4884
80°	5139	5056	4884
85°	4949	4949	4606

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9507 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.7	4.2
10°-20°	339.1	11.9
20°-30°	508.0	17.8
30°-40°	591.1	20.7
40°-50°	525.7	18.4
50°-60°	353.0	12.4
60°-70°	228.2	8.0
70°-80°	142.2	5.0
80°-90°	48.7	1.7
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°	965.8	33.8
0°-40°	1556.8	54.5
0°-60°	2435.5	85.3
0°-90°	2854.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2854.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1251	1251	1251	1251	1251	
5°	1254	1251	1242	1251	1250	119
15°	1208	1205	1196	1204	1202	341
25°	1112	1108	1097	1103	1100	511
35°	959	955	946	946	944	596
45°	698	695	684	675	677	534
55°	394	394	389	383	380	357
65°	229	230	227	226	224	229
75°	138	136	134	134	131	145
85°	45	46	45	43	42	50
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1251.4	1251.4	1251.4	1251.4	1251.4
2.5°	1256.1	1253.0	1243.7	1254.5	1253.0
5°	1254.5	1251.4	1242.2	1251.4	1249.9
7.5°	1246.8	1245.3	1234.4	1245.3	1242.2
10°	1236.0	1236.0	1225.2	1234.4	1231.4
12.5°	1223.6	1222.1	1212.8	1222.1	1220.5
15°	1208.2	1205.1	1195.8	1203.5	1202.0
17.5°	1188.1	1186.6	1175.7	1183.5	1180.4
20°	1164.9	1161.8	1152.6	1158.7	1155.7
22.5°	1140.2	1137.1	1127.8	1132.5	1130.9
25°	1112.4	1107.8	1096.9	1103.1	1100.0
27.5°	1078.4	1076.9	1066.0	1069.1	1066.0
30°	1041.3	1039.8	1032.1	1032.1	1029.0
32.5°	1001.2	1002.7	990.3	991.9	985.7
35°	959.4	954.8	945.5	945.5	944.0
37.5°	906.9	903.8	896.1	894.5	893.0
40°	848.2	845.1	834.3	831.2	831.2
42.5°	778.7	775.6	764.8	760.1	754.0
45°	698.3	695.2	684.4	675.2	676.7
47.5°	608.7	611.8	601.0	593.3	591.7
50°	529.9	528.4	519.1	514.5	508.3
52.5°	454.2	455.8	448.0	445.0	437.2
55°	394.0	394.0	389.3	383.2	380.1
57.5°	339.9	343.0	338.4	335.3	332.2
60°	295.1	296.6	296.6	290.5	290.5
62.5°	258.0	259.6	258.0	254.9	254.9
65°	228.7	230.2	227.1	225.6	224.0
67.5°	202.4	203.9	202.4	200.8	197.8
70°	179.2	179.2	177.7	177.7	174.6
72.5°	159.1	157.6	156.0	156.0	154.5
75°	137.5	136.0	134.4	134.4	131.3
77.5°	115.9	114.3	114.3	111.2	109.7
80°	92.7	92.7	91.2	89.6	88.1
82.5°	71.1	69.5	68.0	66.4	64.9
85°	44.8	46.3	44.8	43.3	41.7
87.5°	20.1	21.6	21.6	21.6	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)