

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: P688660

Luminaire Tested: SQ4R-PC3-075D-92765-1-UNV-STD-W-4\_4000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688660  
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-92765-1-UNV-STD-W-4\_4000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID 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: 2976.4 lumens  
Efficiency: N/A  
Efficacy: 90.7 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

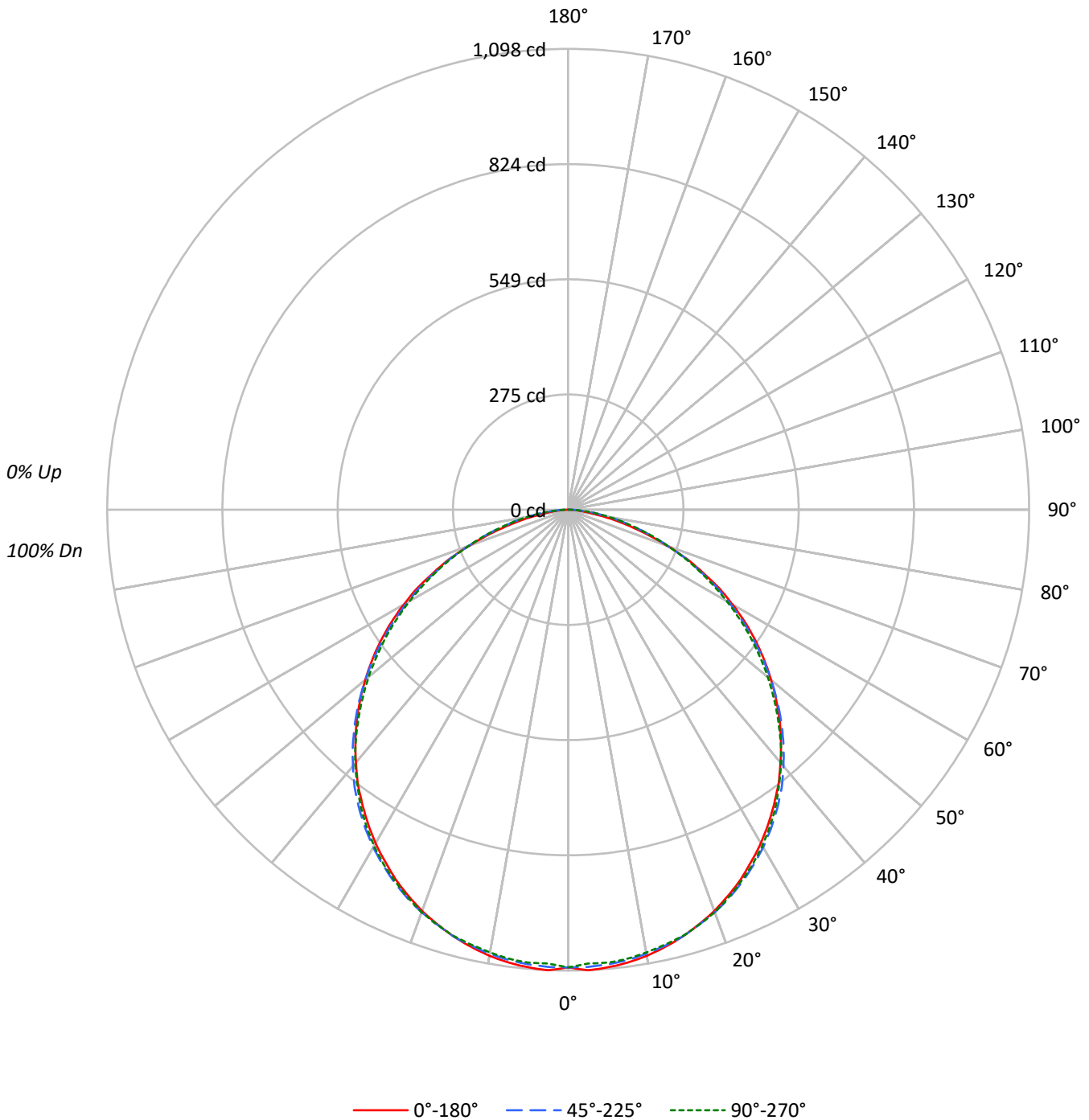
Input Watts (W): 32.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	10498	10498	10498
5°	10577	10509	10469
10°	10551	10502	10472
15°	10496	10496	10485
20°	10427	10457	10457
25°	10328	10404	10371
30°	10203	10326	10281
35°	10051	10205	10133
40°	9884	10024	9922
45°	9705	9774	9622
50°	9451	9451	9300
55°	9151	9032	8898
60°	8709	8534	8399
65°	8051	7889	7820
70°	7048	7105	7077
75°	5673	6271	6309
80°	4031	5317	5372
85°	2452	4463	4463

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 9774 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.2	3.5
10°-20°	296.3	10.0
20°-30°	448.7	15.1
30°-40°	538.0	18.1
40°-50°	548.5	18.4
50°-60°	478.8	16.1
60°-70°	342.8	11.5
70°-80°	176.1	5.9
80°-90°	44.0	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°	848.2	28.5
0°-40°	1386.2	46.6
0°-60°	2413.5	81.1
0°-90°	2976.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2976.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1094	1083	1087	1084	1083	104
15°	1053	1044	1053	1053	1052	297
25°	972	965	979	976	976	448
35°	855	853	868	862	862	535
45°	713	711	718	709	707	549
55°	545	538	538	530	530	486
65°	353	345	346	343	343	350
75°	152	160	169	170	170	164
85°	22	34	40	41	40	30
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1090.4	1090.4	1090.4	1090.4	1090.4
2.5°	1098.5	1086.4	1090.4	1087.4	1082.3
5°	1094.5	1083.3	1087.4	1084.4	1083.3
7.5°	1088.4	1077.3	1082.3	1080.3	1079.3
10°	1079.3	1068.2	1074.3	1072.2	1071.2
12.5°	1067.2	1057.1	1064.2	1062.1	1062.1
15°	1053.1	1044.0	1053.1	1053.1	1052.0
17.5°	1035.9	1027.8	1036.9	1037.9	1036.9
20°	1017.7	1008.6	1020.7	1019.7	1020.7
22.5°	995.5	988.4	1001.6	998.5	999.5
25°	972.3	965.2	979.4	976.3	976.3
27.5°	945.0	940.0	955.1	952.1	952.1
30°	917.8	912.7	928.9	924.8	924.8
32.5°	887.5	884.4	899.6	894.5	894.5
35°	855.2	853.1	868.3	862.2	862.2
37.5°	822.9	820.8	835.0	827.9	824.9
40°	786.5	785.5	797.6	789.5	789.5
42.5°	750.2	749.2	759.2	749.2	749.2
45°	712.8	710.8	717.9	708.8	706.7
47.5°	672.4	670.4	675.4	665.4	664.3
50°	631.0	629.0	631.0	621.9	620.9
52.5°	588.6	584.6	584.6	575.5	575.5
55°	545.2	538.1	538.1	530.1	530.1
57.5°	499.8	490.7	491.7	484.6	483.6
60°	452.3	442.2	443.2	437.2	436.2
62.5°	405.9	393.8	396.8	389.7	389.7
65°	353.4	345.3	346.3	343.3	343.3
67.5°	304.9	296.8	301.9	298.9	298.9
70°	250.4	245.3	252.4	252.4	251.4
72.5°	199.9	200.9	210.0	210.0	211.0
75°	152.5	159.5	168.6	169.6	169.6
77.5°	109.0	121.2	131.3	131.3	131.3
80°	72.7	86.8	95.9	97.9	96.9
82.5°	43.4	58.6	65.6	67.6	66.6
85°	22.2	34.3	40.4	41.4	40.4
87.5°	8.1	17.2	20.2	20.2	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)