

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: P688482

Luminaire Tested: SQ4R-PC3-125D-830-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688482  
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-PC3-125D-830-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4827.9 lumens  
Efficiency: N/A  
Efficacy: 97.5 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

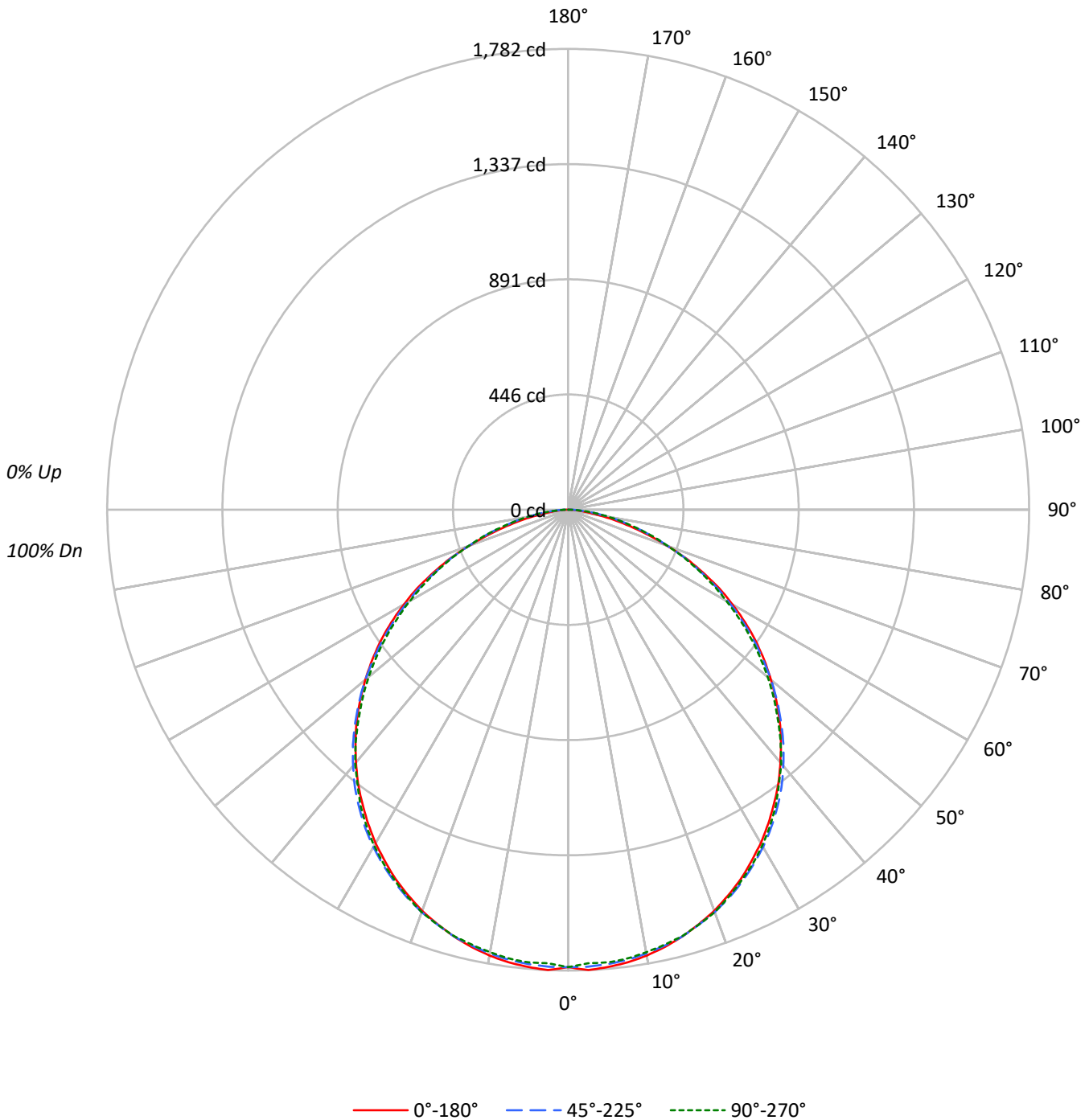
Input Watts (W): 49.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	17028	17028	17028
5°	17156	17046	16982
10°	17115	17034	16987
15°	17025	17025	17008
20°	16913	16963	16963
25°	16753	16874	16822
30°	16548	16750	16676
35°	16302	16553	16437
40°	16032	16260	16095
45°	15742	15853	15608
50°	15329	15329	15085
55°	14843	14651	14432
60°	14127	13842	13623
65°	13058	12796	12684
70°	11431	11524	11479
75°	9199	10173	10233
80°	6537	8627	8715
85°	3977	7235	7235

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 15853 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.5	3.5
10°-20°	480.6	10.0
20°-30°	727.8	15.1
30°-40°	872.7	18.1
40°-50°	889.7	18.4
50°-60°	776.6	16.1
60°-70°	556.0	11.5
70°-80°	285.6	5.9
80°-90°	71.4	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°	1375.9	28.5
0°-40°	2248.5	46.6
0°-60°	3914.9	81.1
0°-90°	4827.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4827.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1769	1769	1769	1769	1769	
5°	1775	1757	1764	1759	1757	169
15°	1708	1693	1708	1708	1706	482
25°	1577	1566	1588	1584	1584	726
35°	1387	1384	1408	1399	1399	868
45°	1156	1153	1164	1150	1146	891
55°	884	873	873	860	860	789
65°	573	560	562	557	557	568
75°	247	259	274	275	275	266
85°	36	56	66	67	66	49
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1768.7	1768.7	1768.7	1768.7	1768.7
2.5°	1781.8	1762.1	1768.7	1763.8	1755.6
5°	1775.2	1757.2	1763.8	1758.9	1757.2
7.5°	1765.4	1747.4	1755.6	1752.3	1750.7
10°	1750.7	1732.7	1742.5	1739.2	1737.6
12.5°	1731.0	1714.6	1726.1	1722.8	1722.8
15°	1708.1	1693.3	1708.1	1708.1	1706.4
17.5°	1680.2	1667.1	1681.9	1683.5	1681.9
20°	1650.8	1636.0	1655.7	1654.0	1655.7
22.5°	1614.7	1603.3	1624.6	1619.7	1621.3
25°	1577.1	1565.6	1588.5	1583.6	1583.6
27.5°	1532.9	1524.7	1549.2	1544.3	1544.3
30°	1488.6	1480.5	1506.7	1500.1	1500.1
32.5°	1439.5	1434.6	1459.2	1451.0	1451.0
35°	1387.1	1383.8	1408.4	1398.6	1398.6
37.5°	1334.7	1331.4	1354.4	1342.9	1338.0
40°	1275.7	1274.1	1293.8	1280.7	1280.7
42.5°	1216.8	1215.1	1231.5	1215.1	1215.1
45°	1156.2	1152.9	1164.4	1149.6	1146.4
47.5°	1090.7	1087.4	1095.6	1079.2	1077.6
50°	1023.5	1020.3	1023.5	1008.8	1007.2
52.5°	954.8	948.2	948.2	933.5	933.5
55°	884.3	872.9	872.9	859.8	859.8
57.5°	810.6	795.9	797.5	786.1	784.4
60°	733.7	717.3	718.9	709.1	707.5
62.5°	658.3	638.7	643.6	632.1	632.1
65°	573.2	560.1	561.7	556.8	556.8
67.5°	494.6	481.5	489.7	484.7	484.7
70°	406.1	398.0	409.4	409.4	407.8
72.5°	324.3	325.9	340.6	340.6	342.3
75°	247.3	258.8	273.5	275.1	275.1
77.5°	176.9	196.5	212.9	212.9	212.9
80°	117.9	140.8	155.6	158.9	157.2
82.5°	70.4	95.0	106.4	109.7	108.1
85°	36.0	55.7	65.5	67.1	65.5
87.5°	13.1	27.8	32.8	32.8	29.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)