

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

(formerly Eaton)

Brand: CORELITE

Report Number: P561599

Luminaire Tested: **SQ4-PC3-0U-100D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561599  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-0U-100D-92765-1D-UNV-STD-W-4 (4500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4130.6 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

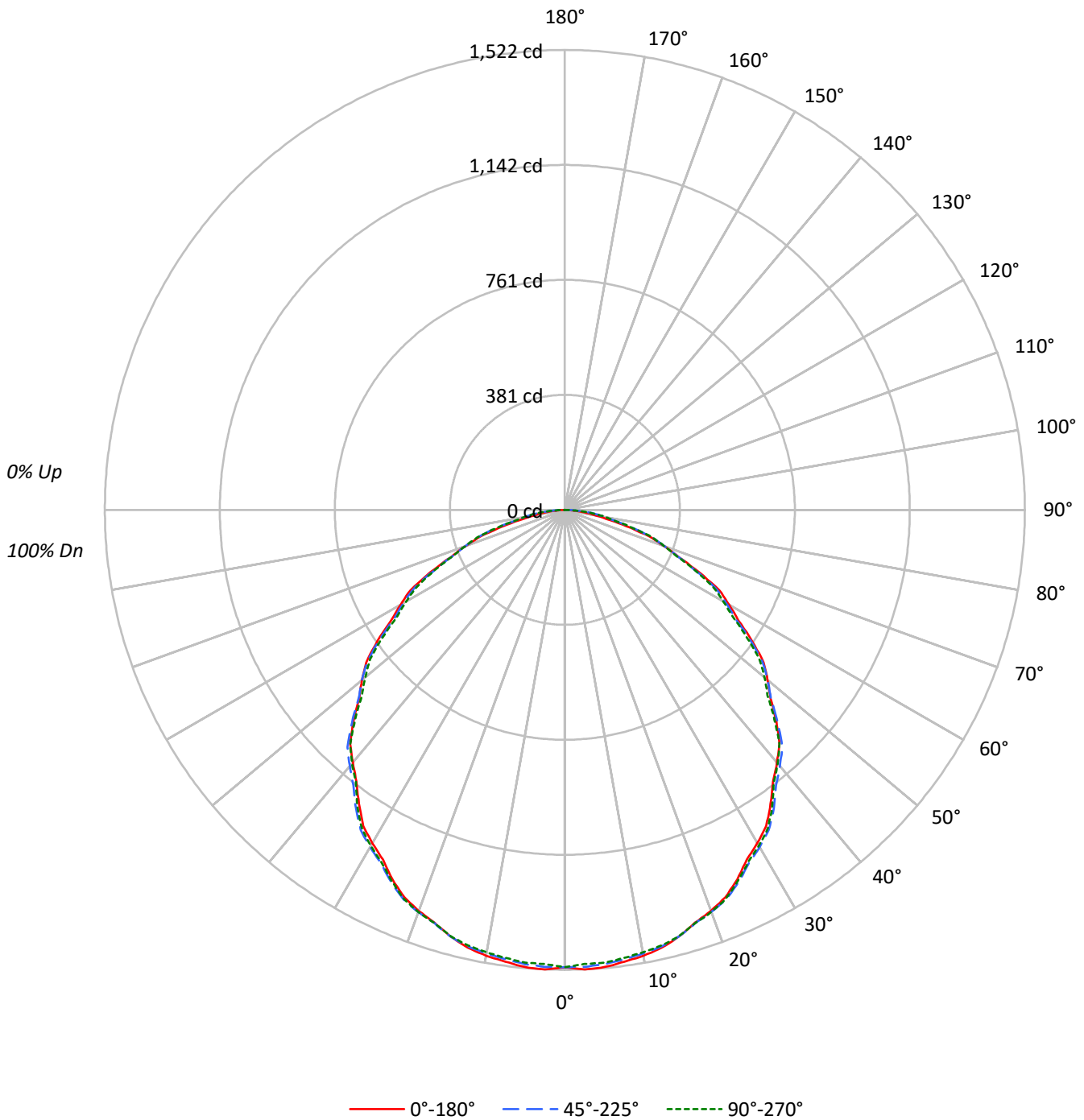
Input Watts (W): 42.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	13964	13964	13964
5°	14069	13978	13926
10°	14035	13969	13930
15°	13961	13961	13947
20°	13869	13911	13911
25°	13738	13838	13795
30°	13571	13736	13676
35°	13369	13574	13480
40°	13148	13334	13199
45°	12910	13001	12800
50°	12572	12572	12370
55°	12172	12014	11834
60°	11584	11352	11171
65°	10708	10494	10402
70°	9374	9450	9412
75°	7543	8341	8391
80°	5361	7072	7146
85°	3260	5939	5939



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.2	3.5
10°-20°	411.0	10.0
20°-30°	622.5	15.1
30°-40°	746.3	18.1
40°-50°	760.9	18.4
50°-60°	664.2	16.1
60°-70°	475.5	11.5
70°-80°	244.9	5.9
80°-90°	61.9	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°	1176.7	28.5
0°-40°	1923.0	46.6
0°-60°	3348.2	81.1
0°-90°	4130.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4130.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1514	1514	1514	1514	1514	
5°	1519	1504	1509	1505	1504	144
15°	1462	1449	1462	1462	1460	412
25°	1350	1340	1359	1355	1355	621
35°	1187	1184	1205	1197	1197	742
45°	989	987	996	984	981	762
55°	757	747	747	736	736	675
65°	490	480	481	476	476	485
75°	212	221	234	235	235	229
85°	31	47	56	57	56	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1513.5	1513.5	1513.5	1513.5	1513.5
2.5°	1522.5	1509.3	1513.5	1510.0	1504.5
5°	1519.1	1504.0	1509.3	1505.0	1503.7
7.5°	1508.2	1493.1	1500.0	1497.2	1495.8
10°	1498.1	1483.0	1491.1	1488.2	1486.9
12.5°	1484.6	1470.6	1479.9	1477.0	1476.8
15°	1461.6	1449.3	1461.6	1461.6	1460.2
17.5°	1432.8	1421.5	1434.7	1435.6	1434.7
20°	1412.6	1400.3	1416.8	1415.4	1416.8
22.5°	1387.9	1377.8	1395.5	1391.9	1393.2
25°	1349.5	1339.9	1359.3	1355.1	1355.1
27.5°	1304.1	1297.3	1318.4	1313.9	1313.9
30°	1273.9	1267.0	1289.3	1283.7	1283.7
32.5°	1240.2	1235.6	1256.8	1250.0	1250.0
35°	1187.0	1184.2	1205.2	1196.8	1196.8
37.5°	1132.0	1129.6	1148.6	1138.4	1135.1
40°	1091.7	1090.3	1107.1	1095.9	1095.9
42.5°	1051.3	1049.9	1064.5	1051.0	1051.0
45°	989.4	986.6	996.4	983.7	981.0
47.5°	921.8	919.1	925.2	911.4	910.1
50°	875.9	873.1	875.9	863.2	861.8
52.5°	828.8	823.8	824.3	811.7	811.4
55°	756.7	747.2	746.9	735.7	735.7
57.5°	680.5	667.9	669.0	659.5	658.1
60°	627.8	614.1	615.2	606.8	605.4
62.5°	576.2	560.4	563.6	554.1	553.8
65°	490.5	479.5	480.7	476.5	476.5
67.5°	408.1	397.9	405.3	401.9	401.6
70°	347.5	340.7	350.3	350.3	348.9
72.5°	291.5	291.2	303.3	303.3	304.1
75°	211.6	221.2	234.0	235.4	235.4
77.5°	141.3	158.2	172.4	172.9	172.6
80°	100.9	120.1	133.1	135.9	134.5
82.5°	68.4	88.7	99.5	102.3	100.9
85°	30.8	47.3	56.1	57.4	56.1
87.5°	9.0	18.8	22.4	22.4	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)