

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: P561495

Luminaire Tested: **SQ4-PC3-050U-100D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561495  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PC3-050U-100D-92765-1D-UNV-STD-W-4 (4500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

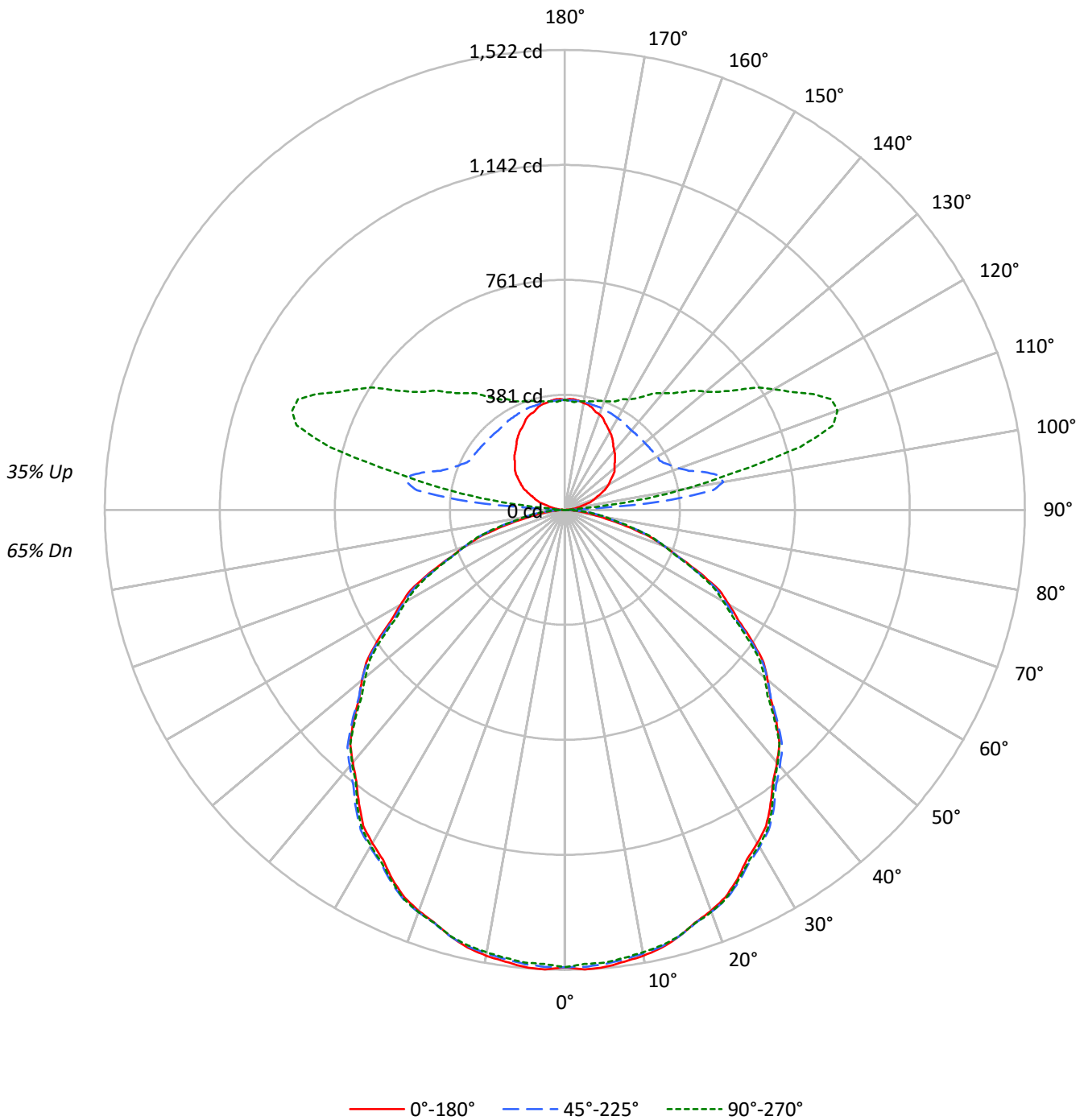
Lumens per Lamp: N/A  
Luminaire Lumens: 6389.1 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 58.1  
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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	70	70	70	65
1	101	97	93	89	95	91	88	85	80	78	75	71	69	67	62	60	59	55
2	92	85	78	73	86	80	74	69	71	66	63	62	59	56	54	52	50	46
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	39
4	77	66	58	51	72	62	55	49	55	49	45	49	44	41	43	39	36	33
5	71	59	50	44	66	55	48	42	49	43	39	44	39	35	39	35	32	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	25
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	22
8	56	43	35	30	52	41	34	29	37	31	26	33	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	16

**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	2.2
10°-20°	411.0	6.4
20°-30°	622.5	9.7
30°-40°	746.3	11.7
40°-50°	760.9	11.9
50°-60°	664.2	10.4
60°-70°	475.5	7.4
70°-80°	244.9	3.8
80°-90°	61.9	1.0
90°-100°	165.7	2.6
100°-110°	471.4	7.4
110°-120°	451.7	7.1
120°-130°	357.5	5.6
130°-140°	286.9	4.5
140°-150°	224.6	3.5
150°-160°	164.4	2.6
160°-170°	101.8	1.6
170°-180°	34.5	0.5
0°-30°	1176.7	18.4
0°-40°	1923.0	30.1
0°-60°	3348.2	52.4
0°-90°	4130.6	64.7
90°-120°	1088.8	17.0
90°-150°	1957.8	30.6
90°-180°	2259.0	35.4
0°-180°	6389.1	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	42
90°	0	0	0	0	0	2
95°	18	71	321	111	68	21
105°	73	111	480	849	807	78
115°	136	165	364	772	906	134
125°	192	213	348	577	690	172
135°	235	255	344	487	551	181
145°	277	291	346	422	460	173
155°	317	324	355	381	397	146
165°	350	351	359	366	372	98
175°	366	364	363	361	358	35
180°	364	364	364	364	364	

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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
92.5°	5.5	29.3	68.0	19.8	14.9
95°	18.0	71.4	320.7	111.0	68.4
97.5°	33.0	83.6	494.0	353.5	242.2
100°	43.5	90.9	531.6	538.4	414.7
102.5°	55.2	98.7	523.3	689.2	581.2
105°	73.3	111.1	480.4	848.6	806.7
107.5°	91.7	125.6	430.4	893.5	930.8
110°	104.4	136.1	401.6	876.3	960.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	<i>116.5</i>	146.7	382.3	835.7	955.2
115°	<i>136.2</i>	164.6	364.3	771.7	906.2
117.5°	<i>153.5</i>	180.1	353.6	701.8	844.3
120°	<i>167.3</i>	189.6	352.5	661.9	798.4
122.5°	<i>178.3</i>	200.6	349.8	626.8	753.6
125°	<i>192.2</i>	213.1	347.7	577.0	689.9
127.5°	<i>207.2</i>	226.8	346.6	547.2	640.2
130°	<i>215.0</i>	234.6	344.9	526.5	607.6
132.5°	<i>223.3</i>	242.3	344.9	510.3	584.9
135°	<i>235.0</i>	254.6	343.5	487.4	550.9
137.5°	<i>246.1</i>	265.1	343.4	468.0	522.9
140°	<i>254.4</i>	274.0	342.9	451.9	504.6
142.5°	<i>263.8</i>	280.1	344.5	439.0	486.4
145°	<i>277.2</i>	291.4	346.3	421.8	459.7
147.5°	<i>288.7</i>	302.4	349.4	404.4	437.1
150°	<i>298.6</i>	308.1	350.5	398.7	421.7
152.5°	<i>306.4</i>	316.4	351.6	390.9	412.3
155°	<i>316.6</i>	324.0	354.6	381.2	396.8
157.5°	<i>329.3</i>	333.8	355.3	376.8	387.9
160°	<i>335.9</i>	339.3	358.1	373.5	382.9
162.5°	<i>339.8</i>	343.7	358.6	370.7	378.0
165°	<i>349.8</i>	351.1	358.8	366.5	371.9
167.5°	<i>356.5</i>	355.3	361.9	365.4	367.6
170°	<i>358.8</i>	358.1	360.8	361.6	364.3
172.5°	<i>363.7</i>	361.4	362.5	360.5	362.6
175°	<i>366.4</i>	364.3	362.9	360.8	358.1
177.5°	<i>367.5</i>	364.2	362.5	360.3	360.8
180°	<i>363.6</i>	363.6	363.6	363.6	363.6

(END OF REPORT)