

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: P561496

Luminaire Tested: **SQ4-PC3-050U-100D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561496  
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 (5000K)  
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 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6459.8 lumens  
Efficiency: N/A  
Efficacy: 111.2 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

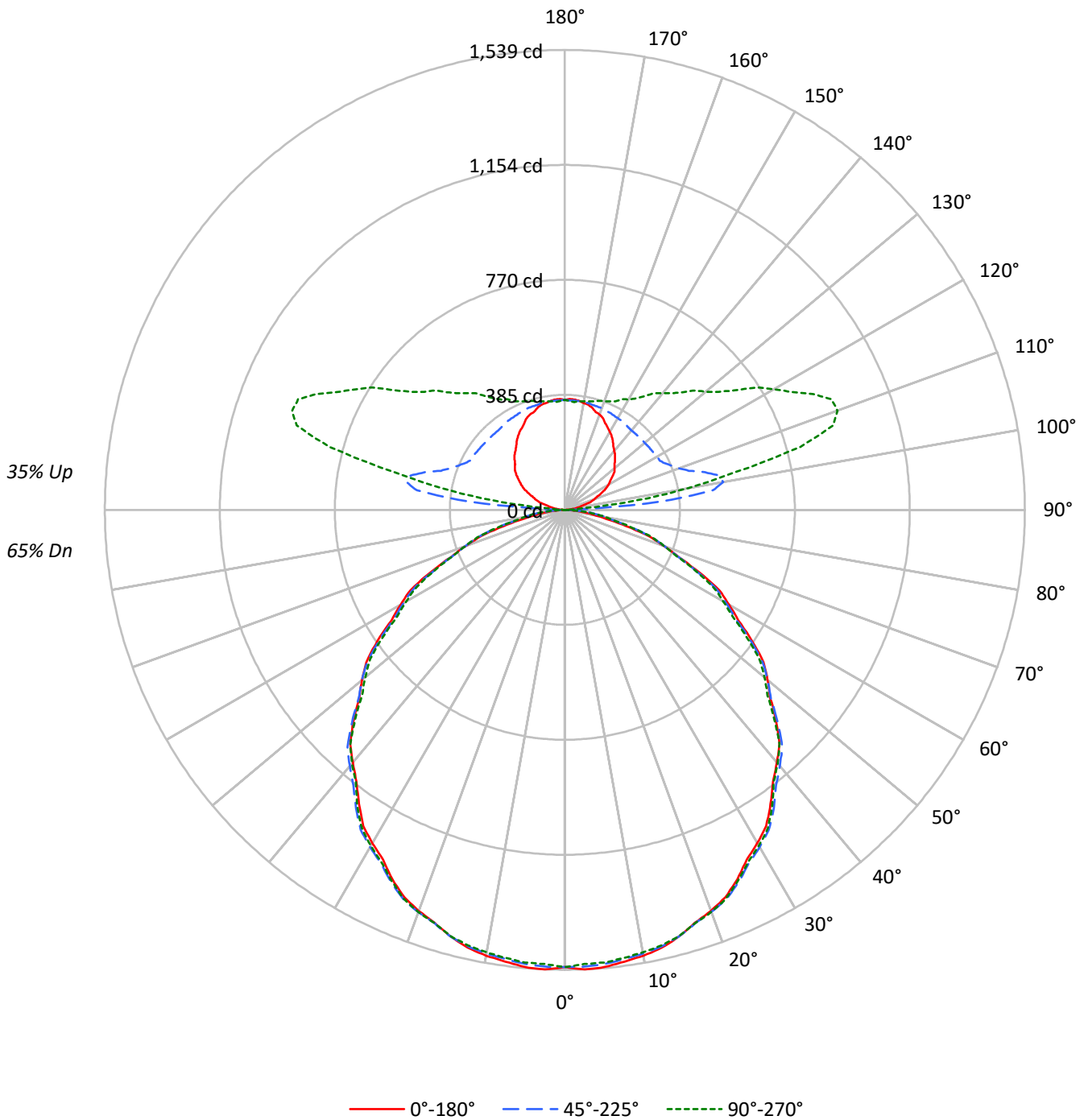
Input Watts (W): 58.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	14118	14118	14118
5°	14225	14133	14080
10°	14190	14124	14084
15°	14115	14115	14102
20°	14023	14065	14065
25°	13891	13991	13948
30°	13721	13887	13827
35°	13517	13724	13628
40°	13294	13481	13345
45°	13052	13144	12941
50°	12711	12711	12508
55°	12307	12148	11966
60°	11714	11477	11295
65°	10826	10610	10516
70°	9479	9555	9517
75°	7625	8434	8484
80°	5419	7152	7226
85°	3303	6002	6002



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.8	2.2
10°-20°	415.6	6.4
20°-30°	629.4	9.7
30°-40°	754.5	11.7
40°-50°	769.4	11.9
50°-60°	671.6	10.4
60°-70°	480.8	7.4
70°-80°	247.6	3.8
80°-90°	62.6	1.0
90°-100°	167.5	2.6
100°-110°	476.6	7.4
110°-120°	456.7	7.1
120°-130°	361.4	5.6
130°-140°	290.1	4.5
140°-150°	227.1	3.5
150°-160°	166.2	2.6
160°-170°	102.9	1.6
170°-180°	34.9	0.5
0°-30°	1189.8	18.4
0°-40°	1944.3	30.1
0°-60°	3385.3	52.4
0°-90°	4176.3	64.7
90°-120°	1100.8	17.0
90°-150°	1979.5	30.6
90°-180°	2283.0	35.3
0°-180°	6459.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1536	1521	1526	1522	1520	146
15°	1478	1465	1478	1478	1476	417
25°	1364	1355	1374	1370	1370	628
35°	1200	1197	1218	1210	1210	751
45°	1000	998	1007	995	992	770
55°	765	755	755	744	744	682
65°	496	485	486	482	482	490
75°	214	224	237	238	238	231
85°	31	48	57	58	57	42
90°	0	0	0	0	0	2
95°	18	72	324	112	69	21
105°	74	112	486	858	816	78
115°	138	166	368	780	916	136
125°	194	216	352	583	698	174
135°	238	257	347	493	557	183
145°	280	295	350	426	465	175
155°	320	328	358	385	401	148
165°	354	355	363	370	376	99
175°	370	368	367	365	362	35
180°	368	368	368	368	368	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1530.2	1530.2	1530.2	1530.2	1530.2
2.5°	1539.3	1526.0	1530.2	1526.7	1521.2
5°	1535.9	1520.7	1526.0	1521.7	1520.3
7.5°	1524.8	1509.6	1516.6	1513.8	1512.4
10°	1514.6	1499.4	1507.6	1504.7	1503.3
12.5°	1501.0	1486.9	1496.2	1493.4	1493.1
15°	1477.8	1465.3	1477.8	1477.8	1476.4
17.5°	1448.6	1437.3	1450.6	1451.4	1450.6
20°	1428.2	1415.7	1432.5	1431.1	1432.5
22.5°	1403.3	1393.0	1410.9	1407.3	1408.7
25°	1364.5	1354.8	1374.4	1370.1	1370.1
27.5°	1318.6	1311.6	1333.0	1328.5	1328.5
30°	1287.9	1281.0	1303.5	1297.9	1297.9
32.5°	1253.9	1249.2	1270.7	1263.9	1263.9
35°	1200.1	1197.3	1218.5	1210.0	1210.0
37.5°	1144.6	1142.1	1161.3	1151.0	1147.7
40°	1103.8	1102.4	1119.3	1108.0	1108.0
42.5°	1062.9	1061.6	1076.3	1062.7	1062.7
45°	1000.3	997.5	1007.4	994.6	991.8
47.5°	932.0	929.3	935.4	921.5	920.1
50°	885.6	882.8	885.6	872.8	871.4
52.5°	837.9	833.0	833.4	820.7	820.4
55°	765.1	755.4	755.2	743.9	743.9
57.5°	688.0	675.3	676.4	666.8	665.4
60°	634.8	620.9	622.0	613.5	612.1
62.5°	582.6	566.6	569.9	560.2	560.0
65°	495.9	484.8	486.0	481.7	481.7
67.5°	412.6	402.3	409.8	406.4	406.1
70°	351.4	344.5	354.2	354.2	352.8
72.5°	294.7	294.4	306.6	306.6	307.5
75°	213.9	223.6	236.6	238.0	238.0
77.5°	142.8	160.0	174.3	174.8	174.6
80°	102.0	121.4	134.6	137.4	136.0
82.5°	69.1	89.6	100.6	103.4	102.0
85°	31.2	47.8	56.7	58.1	56.7
87.5°	9.1	19.0	22.7	22.6	20.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.6	29.6	68.8	20.0	15.1
95°	18.2	72.2	324.3	112.2	69.2
97.5°	33.4	84.5	499.4	357.4	244.9
100°	44.0	91.9	537.4	544.4	419.3
102.5°	55.8	99.8	529.1	696.8	587.6
105°	74.1	112.3	485.7	858.0	815.6
107.5°	92.7	127.0	435.1	903.4	941.1
110°	105.5	137.6	406.1	886.0	970.8

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	117.8	148.3	386.5	844.9	965.7
115°	137.7	166.4	368.3	780.3	916.2
117.5°	155.2	182.1	357.6	709.6	853.6
120°	169.1	191.7	356.4	669.2	807.2
122.5°	180.3	202.9	353.6	633.7	761.9
125°	194.3	215.5	351.5	583.4	697.5
127.5°	209.5	229.3	350.4	553.3	647.3
130°	217.4	237.2	348.7	532.3	614.3
132.5°	225.7	245.0	348.7	516.0	591.4
135°	237.6	257.4	347.3	492.8	557.0
137.5°	248.8	268.1	347.2	473.1	528.6
140°	257.2	277.0	346.6	456.9	510.2
142.5°	266.7	283.2	348.3	443.9	491.7
145°	280.3	294.6	350.1	426.5	464.8
147.5°	291.9	305.8	353.2	408.9	442.0
150°	301.9	311.5	354.3	403.1	426.3
152.5°	309.7	319.9	355.5	395.2	416.8
155°	320.1	327.6	358.5	385.4	401.2
157.5°	332.9	337.5	359.2	381.0	392.2
160°	339.7	343.1	362.0	377.6	387.2
162.5°	343.6	347.5	362.6	374.8	382.2
165°	353.6	355.0	362.7	370.5	376.0
167.5°	360.5	359.3	365.9	369.5	371.7
170°	362.7	362.0	364.8	365.6	368.3
172.5°	367.8	365.4	366.5	364.4	366.6
175°	370.4	368.4	366.9	364.8	362.0
177.5°	371.5	368.2	366.5	364.3	364.8
180°	367.6	367.6	367.6	367.6	367.6

(END OF REPORT)