

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: P561731

Luminaire Tested: **SQ4-PC3-150U-050D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561731  
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-PC3-150U-050D-92765-1D-UNV-STD-W-4 (5700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9174.2 lumens  
Efficiency: N/A  
Efficacy: 128.1 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-Indirect

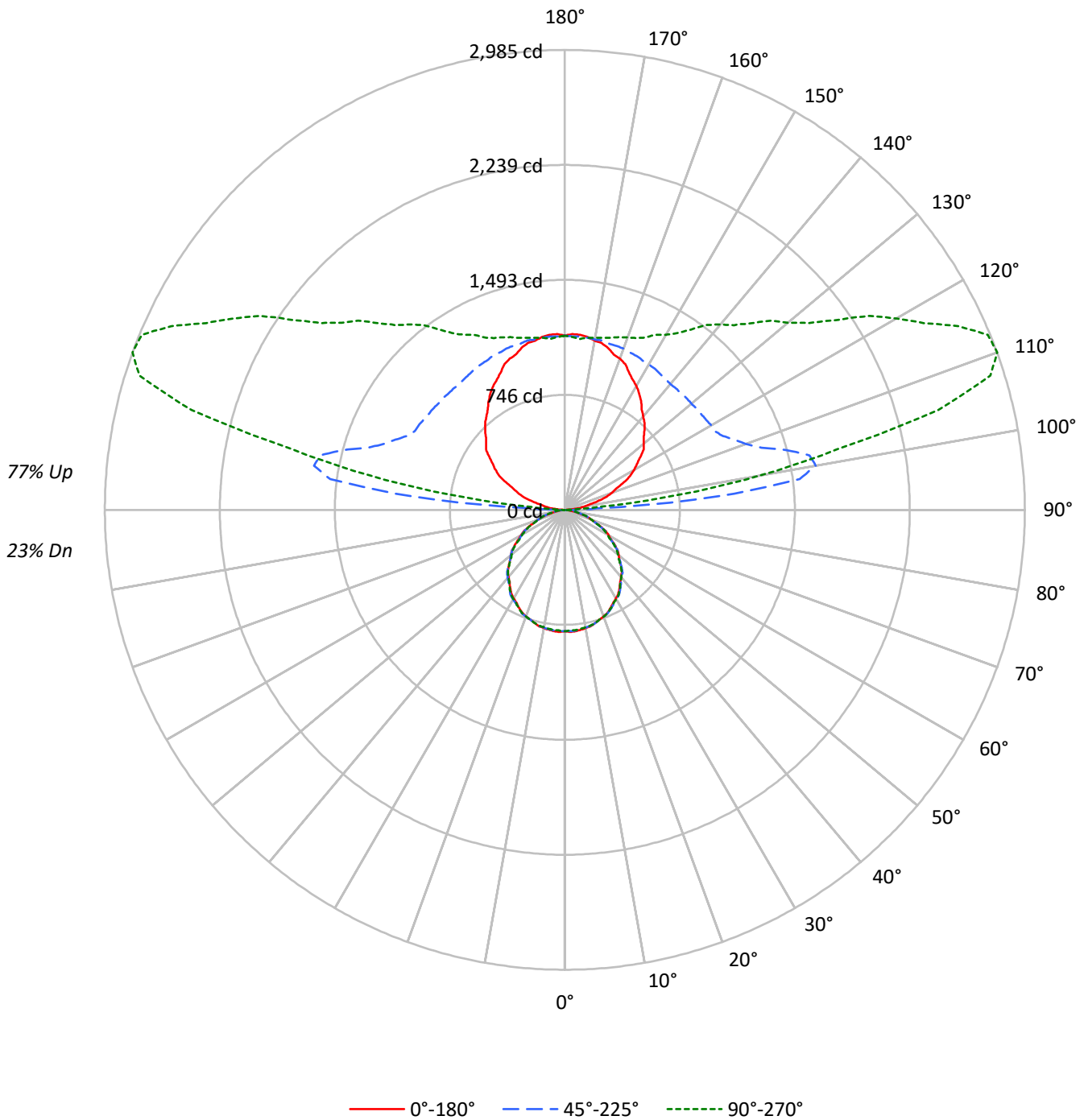
Input Watts (W): 71.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20
2	84	77	71	66	74	68	63	59	53	49	46	38	36	34	25	24	23	17
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	12
5	64	53	45	39	56	47	40	36	36	32	28	27	24	21	17	16	14	10
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	12	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7273	7273	7273
5°	7329	7280	7254
10°	7310	7277	7256
15°	7272	7272	7265
20°	7224	7246	7246
25°	7156	7207	7186
30°	7069	7154	7123
35°	6964	7070	7021
40°	6848	6946	6875
45°	6724	6772	6667
50°	6548	6548	6443
55°	6341	6259	6164
60°	6034	5912	5818
65°	5578	5466	5418
70°	4883	4923	4904
75°	3928	4345	4370
80°	2795	3682	3725
85°	1704	3091	3091



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.6	0.8
10°-20°	214.1	2.3
20°-30°	324.2	3.5
30°-40°	388.7	4.2
40°-50°	396.4	4.3
50°-60°	346.0	3.8
60°-70°	247.7	2.7
70°-80°	127.6	1.4
80°-90°	32.3	0.4
90°-100°	515.2	5.6
100°-110°	1465.8	16.0
110°-120°	1404.4	15.3
120°-130°	1111.5	12.1
130°-140°	892.2	9.7
140°-150°	698.5	7.6
150°-160°	511.1	5.6
160°-170°	316.6	3.5
170°-180°	107.4	1.2
0°-30°	612.9	6.7
0°-40°	1001.6	10.9
0°-60°	1744.0	19.0
0°-90°	2151.5	23.5
90°-120°	3385.4	36.9
90°-150°	6087.6	66.4
90°-180°	7023.0	76.6
0°-180°	9174.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	788	788	788	788	788	
5°	791	783	786	784	783	75
15°	761	755	761	761	761	215
25°	703	698	708	706	706	323
35°	618	617	628	623	623	387
45°	515	514	519	512	511	397
55°	394	389	389	383	383	351
65°	256	250	250	248	248	253
75°	110	115	122	123	123	119
85°	16	25	29	30	29	22
90°	0	0	0	0	0	3
95°	56	222	997	345	213	64
105°	228	346	1494	2639	2508	241
115°	423	512	1133	2400	2818	417
125°	598	663	1081	1794	2145	535
135°	731	792	1068	1516	1713	564
145°	862	906	1077	1312	1429	538
155°	984	1008	1103	1185	1234	455
165°	1088	1092	1116	1140	1156	306
175°	1139	1133	1128	1122	1113	108
180°	1131	1131	1131	1131	1131	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	788.3	788.3	788.3	788.3	788.3
2.5°	793.0	786.2	788.3	786.5	783.7
5°	791.3	783.4	786.1	783.9	783.2
7.5°	785.6	777.7	781.3	779.9	779.1
10°	780.3	772.5	776.7	775.2	774.5
12.5°	773.3	766.0	770.8	769.4	769.2
15°	761.3	754.9	761.3	761.3	760.6
17.5°	746.3	740.4	747.3	747.7	747.3
20°	735.8	729.4	738.0	737.3	738.0
22.5°	722.9	717.7	726.9	725.0	725.7
25°	702.9	697.9	708.0	705.9	705.9
27.5°	679.3	675.7	686.7	684.4	684.4
30°	663.5	659.9	671.5	668.6	668.6
32.5°	646.0	643.6	654.6	651.1	651.1
35°	618.3	616.8	627.7	623.4	623.4
37.5°	589.6	588.4	598.3	593.0	591.3
40°	568.6	567.9	576.7	570.8	570.8
42.5°	547.6	546.9	554.5	547.5	547.5
45°	515.3	513.9	519.0	512.4	511.0
47.5°	480.2	478.7	481.9	474.7	474.0
50°	456.2	454.8	456.2	449.6	448.9
52.5°	431.7	429.1	429.4	422.8	422.6
55°	394.2	389.2	389.1	383.2	383.2
57.5°	354.5	347.9	348.5	343.5	342.8
60°	327.0	319.9	320.4	316.0	315.3
62.5°	300.2	291.9	293.6	288.6	288.5
65°	255.5	249.8	250.4	248.2	248.2
67.5°	212.6	207.3	211.1	209.3	209.2
70°	181.0	177.5	182.5	182.5	181.8
72.5°	151.8	151.7	158.0	158.0	158.4
75°	110.2	115.2	121.9	122.6	122.6
77.5°	73.6	82.4	89.8	90.1	89.9
80°	52.6	62.5	69.3	70.8	70.1
82.5°	35.6	46.2	51.8	53.3	52.6
85°	16.1	24.6	29.2	29.9	29.2
87.5°	4.7	9.8	11.7	11.7	10.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	17.2	91.2	211.5	61.6	46.4
95°	55.9	221.9	997.3	345.2	212.8
97.5°	102.7	259.9	1535.9	1099.1	753.1
100°	135.4	282.5	1652.8	1674.2	1289.6
102.5°	171.5	306.9	1627.1	2143.0	1807.2
105°	227.8	345.5	1493.8	2638.6	2508.3
107.5°	285.0	390.5	1338.2	2778.3	2894.3
110°	324.6	423.3	1248.8	2724.8	2985.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	362.4	456.1	1188.6	2598.4	2970.0
115°	423.4	511.7	1132.7	2399.6	2817.8
117.5°	477.2	560.0	1099.6	2182.2	2625.2
120°	520.1	589.5	1096.2	2058.0	2482.5
122.5°	554.5	623.9	1087.6	1949.0	2343.2
125°	597.5	662.7	1081.1	1794.1	2145.0
127.5°	644.4	705.3	1077.7	1701.5	1990.7
130°	668.4	729.4	1072.5	1637.1	1889.3
132.5°	694.2	753.5	1072.5	1586.8	1818.8
135°	730.8	791.7	1068.2	1515.5	1713.0
137.5°	765.2	824.4	1067.8	1455.1	1625.8
140°	791.0	851.9	1066.1	1405.1	1569.0
142.5°	820.2	871.0	1071.2	1365.2	1512.3
145°	861.9	906.0	1076.8	1311.6	1429.3
147.5°	897.6	940.4	1086.3	1257.5	1359.2
150°	928.5	957.9	1089.7	1239.6	1311.1
152.5°	952.6	983.7	1093.2	1215.5	1281.9
155°	984.4	1007.5	1102.6	1185.4	1233.7
157.5°	1023.9	1037.8	1104.8	1171.7	1206.2
160°	1044.6	1055.1	1113.4	1161.3	1190.7
162.5°	1056.6	1068.8	1115.1	1152.6	1175.3
165°	1087.6	1091.8	1115.5	1139.5	1156.3
167.5°	1108.6	1104.8	1125.4	1136.3	1143.0
170°	1115.5	1113.4	1122.0	1124.3	1132.7
172.5°	1131.0	1123.8	1127.1	1120.8	1127.5
175°	1139.2	1132.8	1128.4	1121.8	1113.4
177.5°	1142.6	1132.5	1127.1	1120.3	1122.0
180°	1130.6	1130.6	1130.6	1130.6	1130.6

(END OF REPORT)