

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: P561757

Luminaire Tested: **SQ4-PC3-150U-100D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561757  
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-100D-92765-1D-UNV-STD-W-4 (5700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 1000 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**

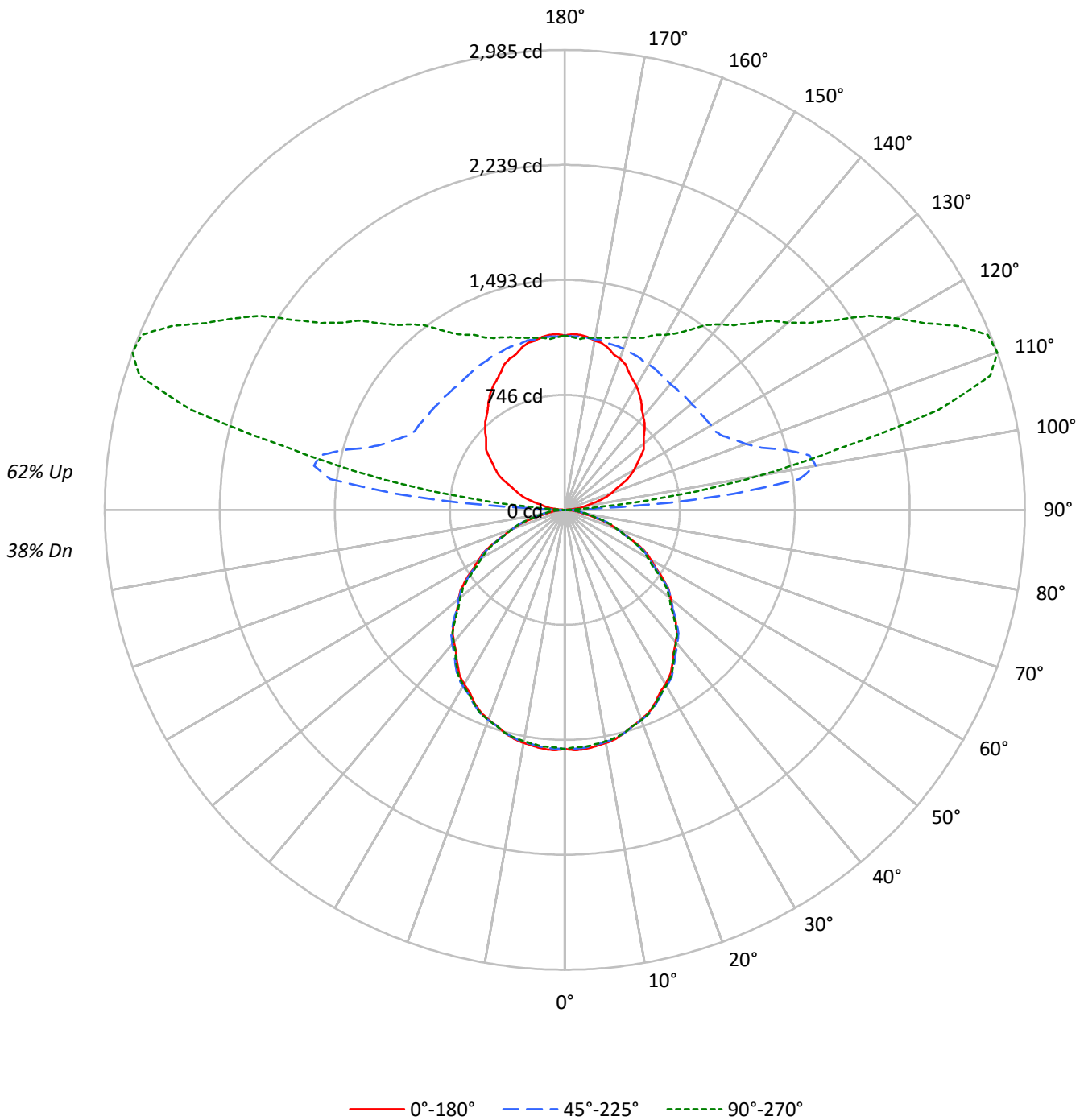
Lumens per Lamp: N/A  
Luminaire Lumens: 11258.5 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 93.3  
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	104	104	104	104	95	95	95	95	76	76	76	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	36	31	51	40	33	29	33	28	24	27	23	20	20	18	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9

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

	0°	45°	90°
0°	14319	14319	14319
5°	14427	14334	14281
10°	14392	14324	14284
15°	14317	14317	14303
20°	14223	14265	14265
25°	14088	14191	14146
30°	13917	14085	14024
35°	13709	13920	13823
40°	13483	13673	13535
45°	13238	13332	13125
50°	12892	12892	12686
55°	12482	12321	12136
60°	11880	11642	11455
65°	10981	10761	10667
70°	9614	9692	9652
75°	7735	8555	8605
80°	5499	7252	7332
85°	3345	6087	6087



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.9	1.3
10°-20°	421.5	3.7
20°-30°	638.3	5.7
30°-40°	765.3	6.8
40°-50°	780.3	6.9
50°-60°	681.2	6.1
60°-70°	487.7	4.3
70°-80°	251.2	2.2
80°-90°	63.5	0.6
90°-100°	515.2	4.6
100°-110°	1465.8	13.0
110°-120°	1404.4	12.5
120°-130°	1111.5	9.9
130°-140°	892.2	7.9
140°-150°	698.5	6.2
150°-160°	511.1	4.5
160°-170°	316.6	2.8
170°-180°	107.4	1.0
0°-30°	1206.7	10.7
0°-40°	1972.0	17.5
0°-60°	3433.5	30.5
0°-90°	4235.8	37.6
90°-120°	3385.4	30.1
90°-150°	6087.6	54.1
90°-180°	7023.0	62.4
0°-180°	11258.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1552	1552	1552	1552	1552	
5°	1558	1542	1548	1543	1542	148
15°	1499	1486	1499	1499	1497	423
25°	1384	1374	1394	1390	1390	637
35°	1217	1214	1236	1227	1227	761
45°	1015	1012	1022	1009	1006	781
55°	776	766	766	754	754	692
65°	503	492	493	489	489	497
75°	217	227	240	241	241	235
85°	32	48	58	59	58	43
90°	0	0	0	0	0	4
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°	1552.0	1552.0	1552.0	1552.0	1552.0
2.5°	1561.2	1547.7	1552.0	1548.5	1542.8
5°	1557.8	1542.3	1547.7	1543.4	1542.0
7.5°	1546.6	1531.1	1538.2	1535.3	1533.9
10°	1536.2	1520.8	1529.0	1526.1	1524.7
12.5°	1522.4	1508.1	1517.5	1514.7	1514.4
15°	1498.9	1486.2	1498.9	1498.8	1497.4
17.5°	1469.3	1457.7	1471.3	1472.1	1471.3
20°	1448.6	1435.9	1452.9	1451.5	1452.9
22.5°	1423.3	1412.9	1431.0	1427.3	1428.7
25°	1383.9	1374.1	1394.0	1389.6	1389.6
27.5°	1337.3	1330.3	1352.0	1347.4	1347.4
30°	1306.3	1299.3	1322.1	1316.4	1316.4
32.5°	1271.8	1267.0	1288.8	1281.9	1281.9
35°	1217.2	1214.4	1235.9	1227.3	1227.3
37.5°	1160.9	1158.3	1177.8	1167.4	1164.0
40°	1119.5	1118.1	1135.3	1123.8	1123.8
42.5°	1078.1	1076.7	1091.6	1077.8	1077.8
45°	1014.6	1011.8	1021.8	1008.8	1005.9
47.5°	945.3	942.5	948.8	934.6	933.2
50°	898.2	895.4	898.2	885.2	883.8
52.5°	849.9	844.8	845.3	832.3	832.1
55°	776.0	766.2	766.0	754.5	754.5
57.5°	697.8	684.9	686.1	676.3	674.8
60°	643.8	629.8	630.9	622.2	620.8
62.5°	590.9	574.6	578.0	568.2	567.9
65°	503.0	491.7	492.9	488.6	488.6
67.5°	418.5	408.1	415.6	412.1	411.9
70°	356.4	349.4	359.3	359.2	357.8
72.5°	298.9	298.6	311.0	311.0	311.8
75°	217.0	226.8	240.0	241.4	241.4
77.5°	144.9	162.3	176.8	177.3	177.0
80°	103.5	123.1	136.5	139.4	138.0
82.5°	70.1	90.9	102.0	104.9	103.5
85°	31.6	48.5	57.5	58.9	57.5
87.5°	9.2	19.3	23.0	22.9	20.7
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)