

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: P561703

Luminaire Tested: **SQ4-PC3-125U-100D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561703  
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-PC3-125U-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 1250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

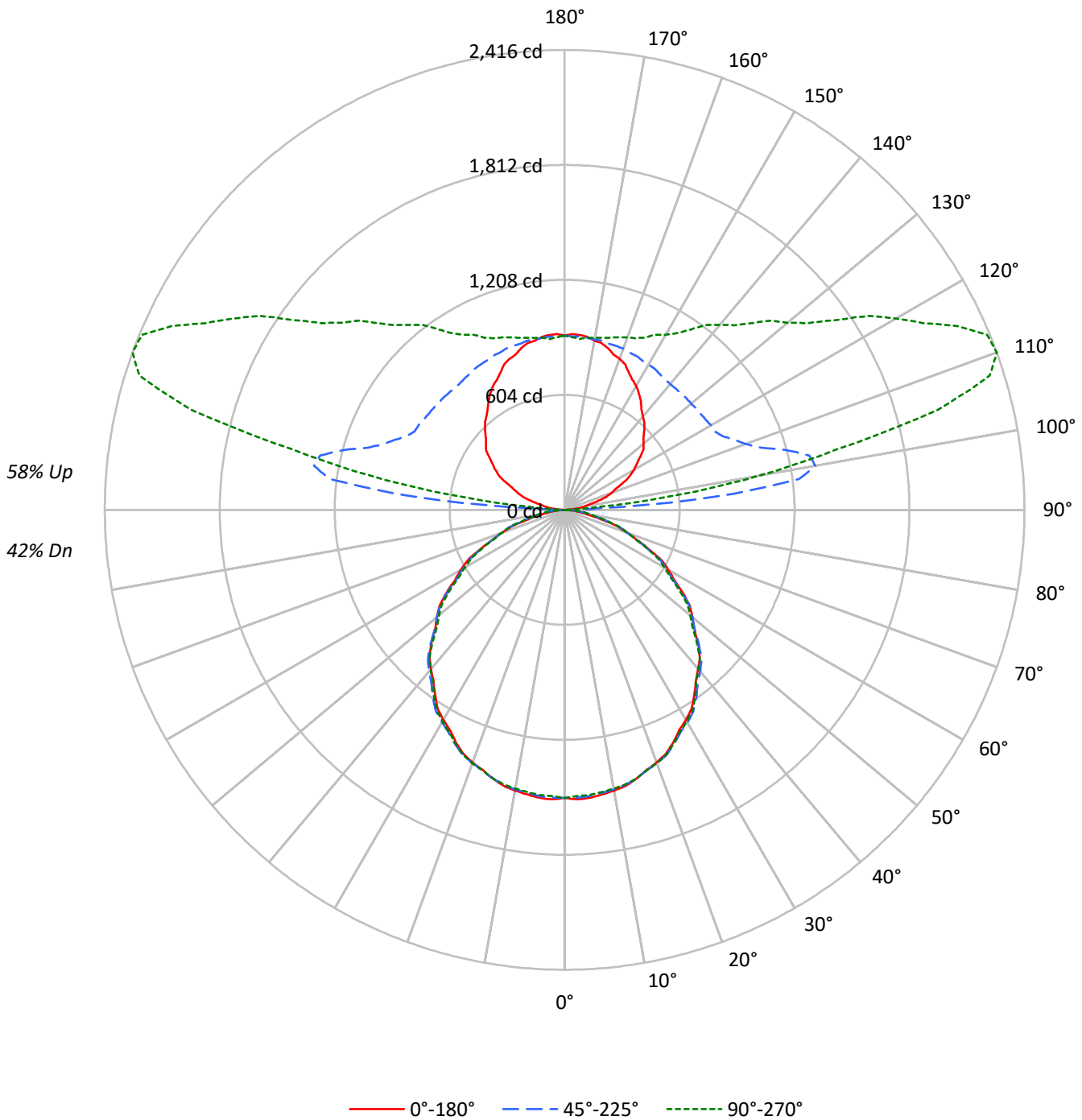
Lumens per Lamp: N/A  
Luminaire Lumens: 9813.1 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 83.7  
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	36
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	70	63	57	73	65	58	53	53	49	45	43	40	37	34	32	30	25
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	28	25	22
5	67	55	47	41	61	51	44	39	42	37	33	34	31	27	27	24	22	19
6	62	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	15
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	13
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	11

**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	1.5
10°-20°	411.0	4.2
20°-30°	622.5	6.3
30°-40°	746.3	7.6
40°-50°	760.9	7.8
50°-60°	664.2	6.8
60°-70°	475.5	4.8
70°-80°	244.9	2.5
80°-90°	61.9	0.6
90°-100°	416.8	4.2
100°-110°	1186.1	12.1
110°-120°	1136.4	11.6
120°-130°	899.4	9.2
130°-140°	721.9	7.4
140°-150°	565.2	5.8
150°-160°	413.5	4.2
160°-170°	256.2	2.6
170°-180°	86.9	0.9
0°-30°	1176.7	12.0
0°-40°	1923.0	19.6
0°-60°	3348.2	34.1
0°-90°	4130.6	42.1
90°-120°	2739.4	27.9
90°-150°	4925.9	50.2
90°-180°	5682.0	57.9
0°-180°	9813.1	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	3
95°	45	180	807	279	172	52
105°	184	280	1209	2135	2030	195
115°	343	414	916	1942	2280	337
125°	484	536	875	1452	1736	433
135°	591	641	864	1226	1386	456
145°	697	733	871	1061	1157	436
155°	796	815	892	959	998	368
165°	880	883	903	922	936	247
175°	922	917	913	908	901	87
180°	915	915	915	915	915	

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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°	13.9	73.8	171.1	49.8	37.6
95°	45.2	179.6	807.0	279.3	172.2
97.5°	83.1	210.3	1242.8	889.3	609.4
100°	109.6	228.6	1337.4	1354.7	1043.5
102.5°	138.8	248.3	1316.6	1734.0	1462.3
105°	184.4	279.6	1208.7	2135.1	2029.6
107.5°	230.6	316.0	1082.8	2248.1	2342.0
110°	262.6	342.5	1010.5	2204.9	2415.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	293.2	369.1	961.8	2102.5	2403.2
115°	342.6	414.0	916.5	1941.7	2280.1
117.5°	386.1	453.1	889.8	1765.8	2124.2
120°	420.9	477.0	887.0	1665.2	2008.8
122.5°	448.7	504.8	880.0	1577.0	1896.1
125°	483.5	536.2	874.8	1451.7	1735.7
127.5°	521.4	570.7	872.0	1376.8	1610.8
130°	540.9	590.2	867.9	1324.7	1528.7
132.5°	561.8	609.7	867.9	1284.0	1471.7
135°	591.3	640.6	864.4	1226.3	1386.1
137.5°	619.1	667.1	864.0	1177.4	1315.5
140°	640.0	689.3	862.6	1137.0	1269.6
142.5°	663.7	704.8	866.8	1104.6	1223.7
145°	697.4	733.1	871.3	1061.3	1156.6
147.5°	726.3	761.0	879.0	1017.6	1099.9
150°	751.3	775.1	881.8	1003.1	1060.9
152.5°	770.8	796.0	884.5	983.5	1037.2
155°	796.5	815.2	892.2	959.2	998.3
157.5°	828.5	839.8	893.9	948.1	976.0
160°	845.2	853.7	900.9	939.7	963.5
162.5°	855.0	864.8	902.3	932.6	951.0
165°	880.0	883.4	902.6	922.1	935.7
167.5°	897.1	894.0	910.6	919.5	924.9
170°	902.6	900.9	907.9	909.7	916.5
172.5°	915.2	909.4	912.0	906.9	912.4
175°	921.8	916.7	913.1	907.7	900.9
177.5°	924.5	916.4	912.0	906.5	907.9
180°	914.8	914.8	914.8	914.8	914.8

(END OF REPORT)