

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: P562936

Luminaire Tested: **SQ4-PC3-100U-075D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562936  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PC3-100U-075D-940-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

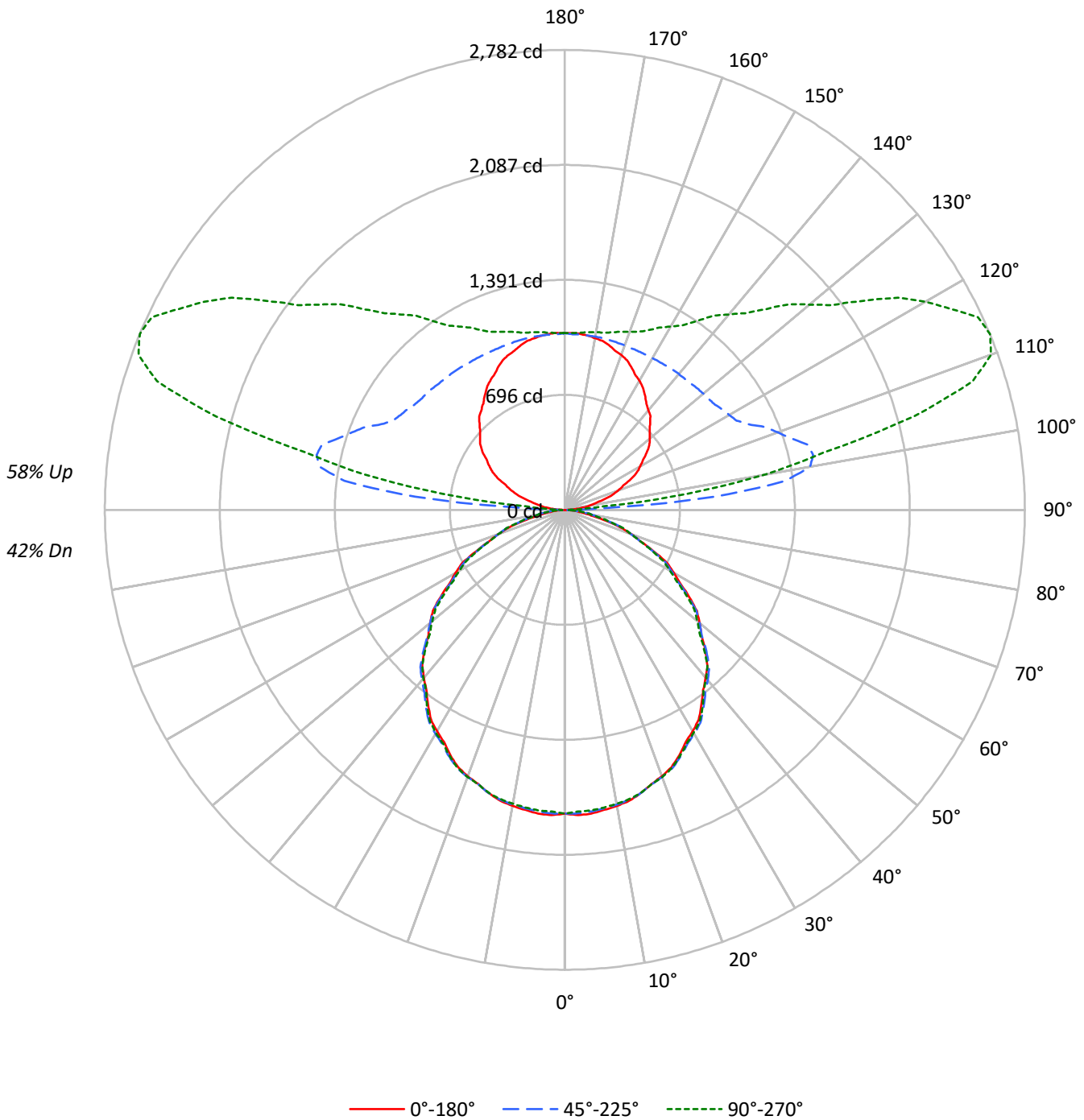
Lumens per Lamp: N/A  
Luminaire Lumens: 11961.2 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 103.9  
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	87	84	81	78	69	67	65	56	54	53	43	42	41	35
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	34	31	30	25
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	27	25	22
5	67	55	47	41	61	51	44	39	42	37	33	34	30	27	27	24	22	19
6	61	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	14
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	23	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	20	26	21	18	22	18	15	17	15	13	11

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

	0°	45°	90°
0°	8477	8477	8477
5°	8540	8485	8454
10°	8520	8480	8456
15°	8475	8475	8467
20°	8419	8444	8444
25°	8340	8401	8375
30°	8238	8338	8302
35°	8116	8240	8183
40°	7982	8094	8012
45°	7837	7892	7770
50°	7632	7632	7510
55°	7390	7293	7184
60°	7032	6891	6781
65°	6500	6370	6315
70°	5691	5738	5713
75°	4579	5064	5094
80°	3254	4293	4338
85°	1980	3604	3604



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.9	1.5
10°-20°	499.0	4.2
20°-30°	755.7	6.3
30°-40°	906.0	7.6
40°-50°	923.9	7.7
50°-60°	806.4	6.7
60°-70°	577.3	4.8
70°-80°	297.4	2.5
80°-90°	77.4	0.6
90°-100°	500.5	4.2
100°-110°	1381.7	11.6
110°-120°	1425.0	11.9
120°-130°	1145.1	9.6
130°-140°	899.9	7.5
140°-150°	690.2	5.8
150°-160°	496.0	4.1
160°-170°	303.4	2.5
170°-180°	102.3	0.9
0°-30°	1428.7	11.9
0°-40°	2334.7	19.5
0°-60°	4065.0	34.0
0°-90°	5017.2	41.9
90°-120°	3307.2	27.6
90°-150°	6042.4	50.5
90°-180°	6944.0	58.1
0°-180°	11961.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1838	1838	1838	1838	1838	
5°	1844	1826	1832	1827	1826	175
15°	1775	1760	1775	1774	1773	500
25°	1638	1627	1650	1645	1645	754
35°	1441	1438	1463	1453	1453	901
45°	1201	1198	1210	1194	1191	925
55°	919	907	907	893	893	819
65°	596	582	584	578	578	589
75°	257	269	284	286	286	278
85°	37	57	68	70	68	51
90°	3	7	14	15	17	7
95°	74	271	908	373	243	79
105°	246	380	1520	2321	2185	262
115°	441	533	1224	2424	2756	434
125°	605	689	1110	1878	2204	539
135°	728	807	1079	1521	1715	564
145°	845	903	1065	1295	1394	529
155°	952	984	1057	1162	1199	439
165°	1031	1044	1062	1103	1112	291
175°	1069	1070	1064	1079	1076	102
180°	1069	1069	1069	1069	1069	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1837.5	1837.5	1837.5	1837.5	1837.5
2.5°	1848.4	1832.4	1837.5	1833.3	1826.6
5°	1844.3	1826.0	1832.4	1827.3	1825.6
7.5°	1831.1	1812.8	1821.2	1817.7	1816.1
10°	1818.8	1800.5	1810.3	1806.9	1805.2
12.5°	1802.5	1785.5	1796.7	1793.3	1792.9
15°	1774.6	1759.6	1774.6	1774.5	1772.9
17.5°	1739.5	1725.9	1741.9	1742.9	1741.9
20°	1715.0	1700.0	1720.1	1718.5	1720.1
22.5°	1685.1	1672.8	1694.3	1689.9	1691.5
25°	1638.5	1626.8	1650.4	1645.3	1645.3
27.5°	1583.3	1575.0	1600.7	1595.2	1595.2
30°	1546.6	1538.3	1565.3	1558.5	1558.5
32.5°	1505.7	1500.1	1525.8	1517.7	1517.7
35°	1441.1	1437.8	1463.2	1453.0	1453.0
37.5°	1374.4	1371.4	1394.5	1382.1	1378.1
40°	1325.4	1323.7	1344.1	1330.5	1330.5
42.5°	1276.4	1274.7	1292.4	1276.1	1276.1
45°	1201.2	1197.9	1209.7	1194.3	1191.0
47.5°	1119.2	1115.9	1123.3	1106.6	1104.9
50°	1063.4	1060.1	1063.4	1048.0	1046.4
52.5°	1006.2	1000.2	1000.8	985.4	985.1
55°	918.8	907.1	906.8	893.2	893.2
57.5°	826.2	810.9	812.3	800.6	799.0
60°	762.2	745.6	746.9	736.7	735.0
62.5°	699.6	680.3	684.3	672.7	672.4
65°	595.5	582.2	583.6	578.5	578.5
67.5°	495.4	483.1	492.0	488.0	487.6
70°	421.9	413.6	425.4	425.3	423.6
72.5°	353.9	353.6	368.2	368.2	369.2
75°	256.9	268.6	284.1	285.8	285.8
77.5°	171.5	192.1	209.3	209.9	209.6
80°	122.5	145.8	161.6	165.0	163.3
82.5°	83.0	107.6	120.8	124.2	122.5
85°	37.4	57.4	68.1	69.7	68.1
87.5°	11.6	24.2	30.0	30.2	27.9
90°	3.4	6.8	13.7	15.4	17.1
92.5°	30.8	127.8	228.5	83.4	65.0
95°	73.5	270.8	908.0	373.2	242.8
97.5°	121.7	303.3	1345.1	1035.6	750.0
100°	157.3	322.8	1506.5	1517.1	1232.9
102.5°	191.5	345.0	1537.9	1874.5	1605.0
105°	246.2	380.0	1520.2	2320.8	2185.3
107.5°	304.4	423.4	1435.3	2536.0	2585.5
110°	345.4	452.4	1369.7	2582.3	2742.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	382.3	485.3	1308.1	2545.7	2782.5
115°	441.2	533.1	1224.3	2423.8	2756.5
117.5°	492.5	584.1	1169.3	2252.1	2630.6
120°	526.7	617.0	1147.4	2135.9	2517.1
122.5°	559.5	645.8	1129.6	2027.3	2388.5
125°	605.3	688.9	1109.8	1878.1	2204.2
127.5°	644.3	727.9	1098.1	1751.9	2033.2
130°	670.3	753.9	1092.7	1674.7	1930.6
132.5°	694.9	774.5	1087.2	1609.9	1841.6
135°	728.4	807.0	1079.0	1521.2	1715.1
137.5°	766.1	837.6	1074.9	1446.6	1612.2
140°	786.6	856.8	1072.2	1396.9	1542.4
142.5°	809.8	874.7	1069.4	1352.8	1480.8
145°	844.7	903.2	1065.3	1295.0	1393.6
147.5°	878.2	929.4	1061.5	1246.3	1322.8
150°	902.9	944.7	1060.2	1217.2	1279.1
152.5°	922.0	961.1	1058.8	1192.3	1243.5
155°	952.5	984.2	1056.8	1161.9	1198.7
157.5°	980.5	1004.9	1057.1	1139.8	1164.8
160°	996.9	1018.6	1058.5	1127.3	1145.7
162.5°	1010.6	1029.7	1059.8	1116.3	1130.6
165°	1031.1	1044.5	1061.9	1103.1	1111.5
167.5°	1046.8	1054.9	1063.6	1095.1	1097.8
170°	1055.1	1061.7	1063.6	1091.0	1091.0
172.5°	1061.9	1065.9	1063.6	1085.5	1084.1
175°	1068.7	1070.4	1063.6	1078.9	1075.6
177.5°	1071.5	1070.1	1063.3	1072.8	1070.1
180°	1068.7	1068.7	1068.7	1068.7	1068.7

(END OF REPORT)