

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: P562575

Luminaire Tested: **SQ4-PC3-025U-100D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562575  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-100D-940-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

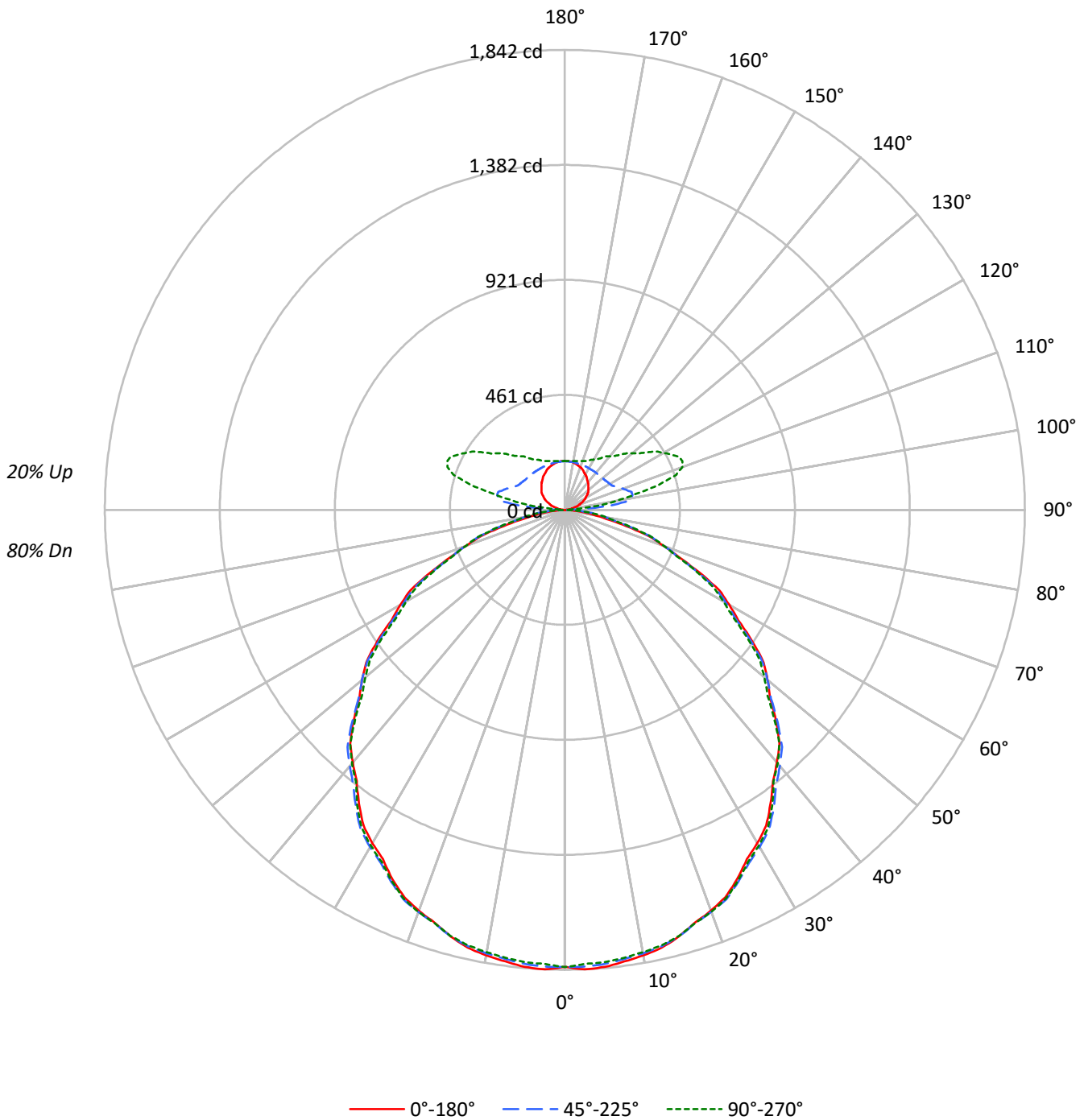
Lumens per Lamp: N/A  
Luminaire Lumens: 6263.7 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 63.5  
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	105	100	96	92	100	96	92	89	88	85	83	81	79	76	74	72	71	67
2	95	87	81	76	91	84	78	73	77	72	68	71	67	64	65	62	60	57
3	87	77	69	63	83	74	67	61	68	62	58	63	58	54	58	54	51	48
4	80	68	60	53	76	66	58	52	61	54	49	56	51	46	52	47	44	41
5	73	61	52	46	70	59	51	45	54	48	42	50	45	40	46	42	38	35
6	68	55	46	40	64	53	45	39	49	42	37	45	40	35	42	37	33	31
7	63	50	41	35	60	48	40	34	44	38	33	41	36	31	38	33	30	27
8	58	45	37	31	55	44	36	31	41	34	29	38	32	28	35	30	27	25
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	33	28	24	22
10	51	38	30	25	49	37	30	25	34	28	24	32	27	23	30	25	22	20

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

	0°	45°	90°
0°	11263	11263	11263
5°	11348	11274	11233
10°	11320	11267	11235
15°	11261	11261	11250
20°	11187	11220	11220
25°	11081	11161	11127
30°	10946	11079	11031
35°	10783	10948	10873
40°	10605	10754	10646
45°	10412	10486	10323
50°	10140	10140	9978
55°	9819	9691	9545
60°	9344	9156	9011
65°	8636	8465	8390
70°	7562	7623	7593
75°	6084	6728	6768
80°	4325	5706	5767
85°	2632	4785	4785



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.3	2.8
10°-20°	497.3	7.9
20°-30°	753.1	12.0
30°-40°	902.9	14.4
40°-50°	920.6	14.7
50°-60°	803.7	12.8
60°-70°	575.4	9.2
70°-80°	296.3	4.7
80°-90°	76.0	1.2
90°-100°	95.1	1.5
100°-110°	250.1	4.0
110°-120°	259.3	4.1
120°-130°	208.0	3.3
130°-140°	163.2	2.6
140°-150°	125.3	2.0
150°-160°	90.2	1.4
160°-170°	55.2	0.9
170°-180°	18.6	0.3
0°-30°	1423.7	22.7
0°-40°	2326.6	37.1
0°-60°	4050.9	64.7
0°-90°	4998.6	79.8
90°-120°	604.6	9.7
90°-150°	1101.1	17.6
90°-180°	1265.0	20.2
0°-180°	6263.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1831	1831	1831	1831	1831	
5°	1838	1820	1826	1821	1819	174
15°	1768	1754	1768	1768	1767	499
25°	1633	1621	1645	1640	1640	751
35°	1436	1433	1458	1448	1448	898
45°	1197	1194	1206	1190	1187	921
55°	916	904	904	890	890	816
65°	593	580	582	576	576	587
75°	256	268	283	285	285	277
85°	37	57	68	70	68	51
90°	1	4	10	5	5	3
95°	12	49	164	84	58	14
105°	45	68	276	420	392	48
115°	80	97	222	442	504	79
125°	111	125	201	340	402	99
135°	133	146	195	275	312	103
145°	154	164	193	234	253	96
155°	174	179	193	212	218	80
165°	188	190	193	200	203	53
175°	195	195	194	196	196	19
180°	195	195	195	195	195	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1831.1	1831.1	1831.1	1831.1	1831.1
2.5°	1842.0	1826.1	1831.1	1826.9	1820.3
5°	1837.9	1819.7	1826.0	1820.9	1819.3
7.5°	1824.7	1806.5	1814.9	1811.4	1809.8
10°	1812.5	1794.2	1804.0	1800.6	1798.9
12.5°	1796.2	1779.3	1790.4	1787.0	1786.7
15°	1768.4	1753.5	1768.4	1768.4	1766.7
17.5°	1733.5	1719.9	1735.8	1736.8	1735.8
20°	1709.1	1694.1	1714.1	1712.5	1714.1
22.5°	1679.2	1667.0	1688.4	1684.0	1685.7
25°	1632.8	1621.2	1644.6	1639.5	1639.5
27.5°	1577.8	1569.5	1595.1	1589.7	1589.7
30°	1541.2	1532.9	1559.9	1553.1	1553.1
32.5°	1500.5	1494.9	1520.5	1512.4	1512.4
35°	1436.1	1432.8	1458.1	1448.0	1448.0
37.5°	1369.6	1366.6	1389.6	1377.3	1373.4
40°	1320.8	1319.1	1339.4	1325.9	1325.9
42.5°	1272.0	1270.3	1287.9	1271.6	1271.6
45°	1197.0	1193.7	1205.5	1190.2	1186.8
47.5°	1115.3	1112.0	1119.4	1102.7	1101.1
50°	1059.7	1056.4	1059.7	1044.4	1042.7
52.5°	1002.7	996.7	997.3	982.0	981.7
55°	915.6	904.0	903.7	890.1	890.1
57.5°	823.3	808.1	809.4	797.9	796.2
60°	759.6	743.0	744.3	734.1	732.5
62.5°	697.2	678.0	681.9	670.4	670.1
65°	593.4	580.2	581.6	576.5	576.5
67.5°	493.7	481.5	490.3	486.3	485.9
70°	420.5	412.2	423.9	423.8	422.2
72.5°	352.7	352.3	366.9	366.9	367.9
75°	256.0	267.6	283.1	284.8	284.8
77.5°	170.9	191.5	208.5	209.2	208.9
80°	122.1	145.3	161.1	164.4	162.8
82.5°	82.7	107.3	120.4	123.7	122.1
85°	37.3	57.2	67.8	69.5	67.8
87.5°	11.1	23.5	29.1	28.1	25.4
90°	1.3	3.7	10.0	5.0	5.0
92.5°	5.3	25.3	56.1	24.8	16.0
95°	12.5	49.2	163.9	84.5	57.6
97.5°	21.8	54.1	245.2	195.0	143.6
100°	28.8	58.1	270.3	273.9	212.7
102.5°	34.8	62.2	277.3	341.1	288.8
105°	45.0	68.3	276.5	419.8	391.6
107.5°	55.6	77.1	260.8	460.6	467.5
110°	62.6	82.1	247.7	471.1	500.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	69.6	88.2	235.7	464.5	509.5
115°	80.1	97.2	221.5	441.8	504.2
117.5°	90.3	106.0	211.7	410.5	479.7
120°	96.3	111.0	207.7	389.4	456.7
122.5°	102.3	117.0	204.7	368.4	434.7
125°	111.4	124.8	201.4	340.5	401.6
127.5°	118.6	132.3	198.7	318.0	369.6
130°	122.6	137.3	197.7	303.9	351.6
132.5°	126.6	141.3	196.7	291.8	334.6
135°	132.6	146.1	195.2	274.8	311.6
137.5°	138.9	152.1	194.9	262.2	292.3
140°	143.9	156.1	193.9	252.1	280.3
142.5°	147.9	159.1	193.9	245.0	269.3
145°	153.9	163.7	192.7	234.4	252.7
147.5°	159.9	169.4	192.7	225.6	240.7
150°	163.9	172.5	192.7	220.5	232.7
152.5°	167.9	174.5	192.7	216.4	225.7
155°	173.9	178.8	192.7	211.6	217.7
157.5°	178.4	183.1	192.7	207.3	211.7
160°	181.4	185.1	192.7	205.3	207.7
162.5°	184.4	187.1	192.7	203.3	205.7
165°	187.7	190.1	192.7	200.2	202.7
167.5°	190.7	191.9	193.9	199.0	199.9
170°	192.7	193.9	193.9	198.9	198.9
172.5°	193.7	193.9	193.9	197.9	196.9
175°	195.2	195.2	193.9	196.4	196.4
177.5°	195.2	195.2	194.2	196.2	195.2
180°	195.2	195.2	195.2	195.2	195.2

(END OF REPORT)