

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: P563151

Luminaire Tested: **SQ4-PC3-150U-100D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563151
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

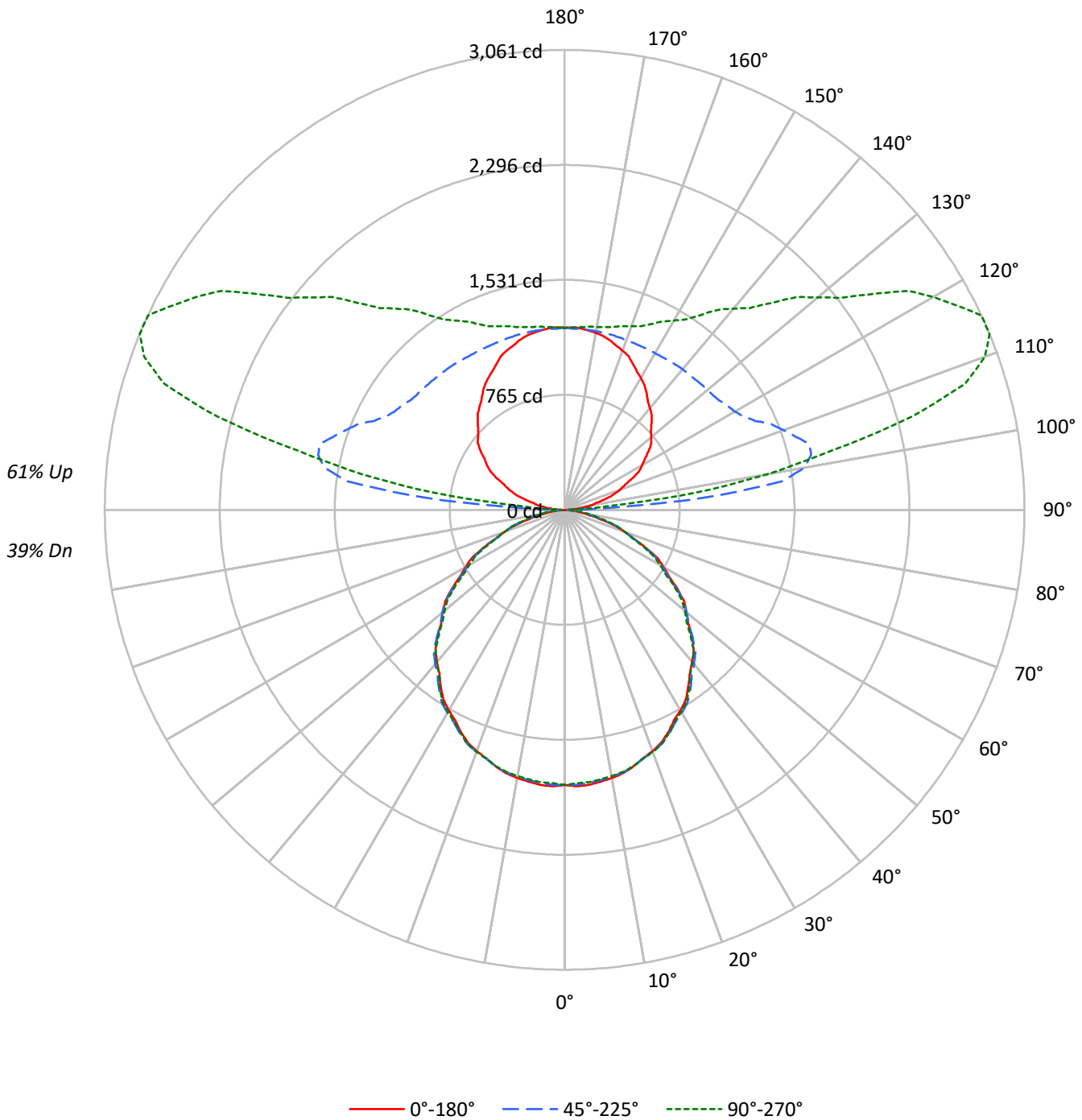
Lumens per Lamp: N/A
Luminaire Lumens: 12811.4 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 112.7
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	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	65	63	54	52	51	41	40	39	33
2	87	80	74	69	79	73	67	63	59	56	52	47	45	42	36	34	33	28
3	79	70	63	57	72	64	58	53	52	48	44	42	38	36	32	30	28	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	31	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	19	17	14	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	16	14	12	10

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	1.4
10°-20°	497.3	3.9
20°-30°	753.1	5.9
30°-40°	902.9	7.0
40°-50°	920.6	7.2
50°-60°	803.7	6.3
60°-70°	575.4	4.5
70°-80°	296.3	2.3
80°-90°	77.5	0.6
90°-100°	563.1	4.4
100°-110°	1522.4	11.9
110°-120°	1600.6	12.5
120°-130°	1300.1	10.1
130°-140°	1019.8	8.0
140°-150°	782.7	6.1
150°-160°	562.9	4.4
160°-170°	343.9	2.7
170°-180°	115.9	0.9
0°-30°	1423.7	11.1
0°-40°	2326.6	18.2
0°-60°	4050.9	31.6
0°-90°	5000.0	39.0
90°-120°	3686.0	28.8
90°-150°	6788.7	53.0
90°-180°	7811.0	61.0
0°-180°	12811.4	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°	3	8	17	18	17	7
95°	87	307	936	485	288	91
105°	283	437	1689	2491	2389	298
115°	498	609	1401	2712	3061	492
125°	682	782	1262	2130	2503	608
135°	818	915	1228	1720	1947	632
145°	951	1022	1212	1472	1585	595
155°	1073	1115	1201	1321	1364	495
165°	1168	1180	1206	1253	1260	329
175°	1213	1212	1208	1223	1221	115
180°	1212	1212	1212	1212	1212	

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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°	11.4	24.3	30.5	30.7	27.8
90°	2.6	7.7	17.0	18.2	17.0
92.5°	37.0	135.0	266.3	115.6	83.7
95°	87.4	306.7	936.4	484.6	288.2
97.5°	140.3	351.8	1459.6	1207.9	887.1
100°	180.0	370.0	1622.4	1692.0	1368.1
102.5°	216.5	395.3	1679.8	2059.0	1816.7
105°	283.0	437.3	1688.9	2491.2	2389.2
107.5°	344.6	485.3	1615.1	2760.9	2794.8
110°	392.6	520.1	1549.3	2833.3	2977.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	435.3	554.7	1488.8	2818.8	3060.9
115°	498.2	609.1	1400.7	2711.5	3060.9
117.5°	559.7	663.8	1342.5	2547.4	2943.5
120°	597.3	699.3	1308.1	2429.7	2833.9
122.5°	632.8	732.8	1287.2	2303.5	2710.8
125°	682.1	781.5	1262.4	2130.3	2502.7
127.5°	727.5	825.1	1247.8	1989.0	2316.4
130°	752.5	853.2	1241.6	1901.7	2197.5
132.5°	778.6	878.3	1235.3	1822.9	2095.3
135°	817.7	914.6	1228.5	1720.1	1947.1
137.5°	857.1	948.6	1222.8	1636.7	1821.6
140°	884.2	969.7	1220.7	1583.1	1747.6
142.5°	910.3	990.6	1216.5	1534.6	1678.7
145°	950.7	1022.1	1211.6	1472.3	1584.6
147.5°	987.5	1050.8	1205.8	1415.9	1502.1
150°	1014.6	1070.7	1203.7	1385.3	1454.1
152.5°	1039.7	1088.6	1202.7	1356.8	1413.4
155°	1073.3	1115.4	1201.1	1320.8	1364.1
157.5°	1108.3	1137.6	1201.4	1295.7	1324.2
160°	1128.1	1152.3	1202.4	1279.8	1300.2
162.5°	1143.7	1163.9	1203.5	1267.2	1282.5
165°	1168.5	1180.0	1206.3	1253.4	1259.8
167.5°	1185.5	1193.4	1206.6	1241.6	1244.7
170°	1195.9	1199.7	1207.6	1236.3	1236.3
172.5°	1204.3	1205.0	1207.6	1230.1	1229.0
175°	1212.9	1211.6	1207.6	1223.2	1220.7
177.5°	1215.7	1212.7	1207.4	1217.8	1214.7
180°	1211.6	1211.6	1211.6	1211.6	1211.6

(END OF REPORT)