

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: P563152

Luminaire Tested: **SQ4-PC3-150U-100D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563152
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-8
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

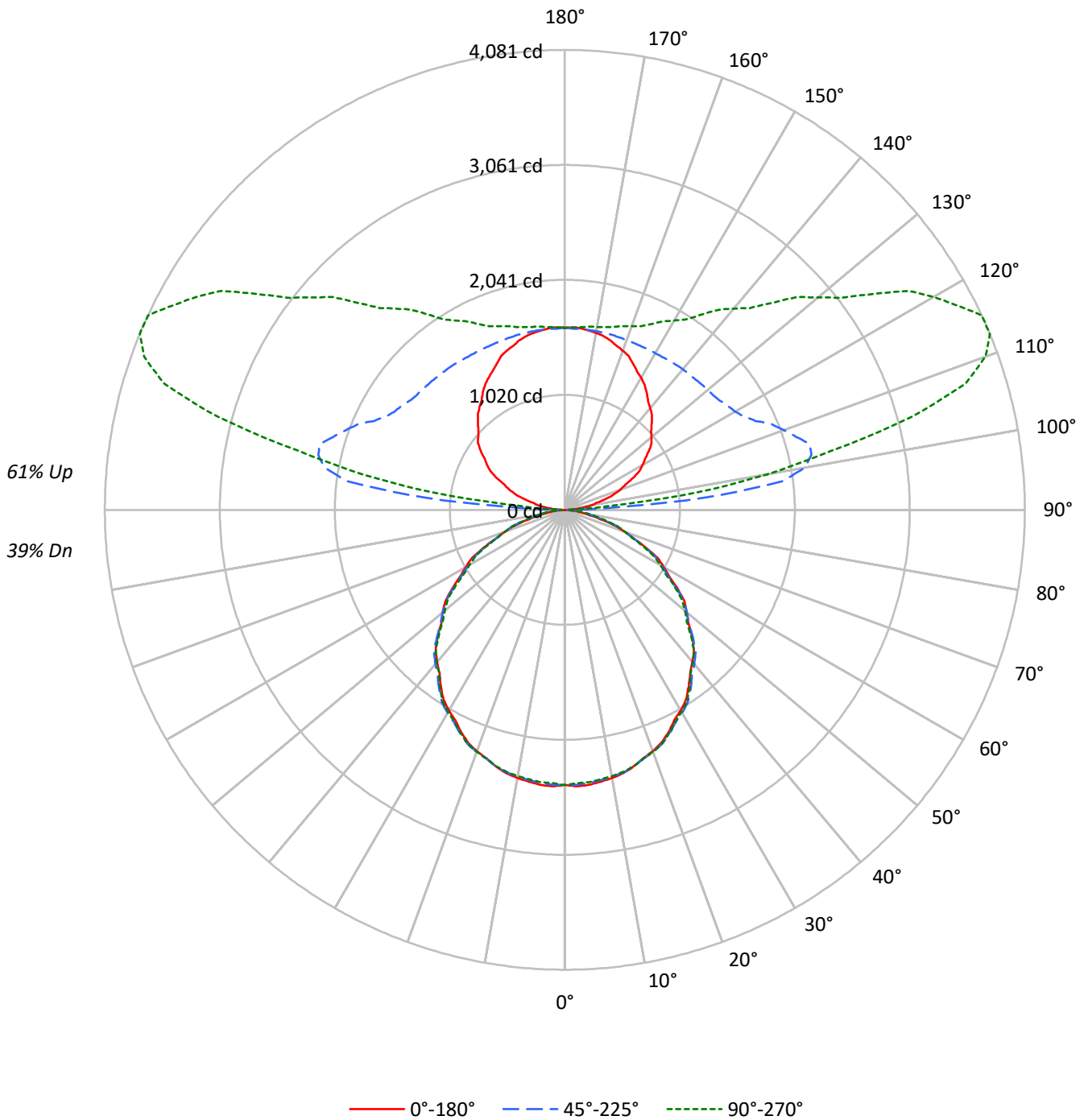
Lumens per Lamp: N/A
Luminaire Lumens: 17081.9 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 148.4
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	11236
15°	11261	11261	11250
20°	11187	11220	11220
25°	11081	11161	11127
30°	10946	11079	11031
35°	10783	10949	10872
40°	10605	10755	10646
45°	10412	10486	10324
50°	10140	10140	9978
55°	9819	9691	9545
60°	9344	9156	9010
65°	8636	8464	8390
70°	7561	7623	7592
75°	6085	6728	6769
80°	4325	5706	5765
85°	2631	4785	4785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.1	1.4
10°-20°	663.1	3.9
20°-30°	1004.2	5.9
30°-40°	1203.9	7.0
40°-50°	1227.5	7.2
50°-60°	1071.5	6.3
60°-70°	767.1	4.5
70°-80°	395.1	2.3
80°-90°	103.3	0.6
90°-100°	750.7	4.4
100°-110°	2029.9	11.9
110°-120°	2134.1	12.5
120°-130°	1733.5	10.1
130°-140°	1359.8	8.0
140°-150°	1043.6	6.1
150°-160°	750.6	4.4
160°-170°	458.5	2.7
170°-180°	154.6	0.9
0°-30°	1898.3	11.1
0°-40°	3102.2	18.2
0°-60°	5401.2	31.6
0°-90°	6666.7	39.0
90°-120°	4914.7	28.8
90°-150°	9051.5	53.0
90°-180°	10415.0	61.0
0°-180°	17081.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2442	2442	2442	2442	2442	
5°	2451	2426	2435	2428	2426	233
15°	2358	2338	2358	2358	2356	665
25°	2177	2162	2193	2186	2186	1002
35°	1915	1910	1944	1931	1931	1198
45°	1596	1592	1607	1587	1582	1229
55°	1221	1205	1205	1187	1187	1088
65°	791	774	775	769	769	783
75°	341	357	378	380	380	369
85°	50	76	90	93	90	68
90°	4	10	23	24	23	10
95°	116	409	1248	646	384	122
105°	377	583	2252	3322	3186	397
115°	664	812	1868	3615	4081	656
125°	909	1042	1683	2840	3337	811
135°	1090	1220	1638	2294	2596	843
145°	1268	1363	1615	1963	2113	793
155°	1431	1487	1602	1761	1819	660
165°	1558	1573	1608	1671	1680	439
175°	1617	1616	1610	1631	1628	154
180°	1615	1615	1615	1615	1615	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2441.5	2441.5	2441.5	2441.5	2441.5
2.5°	2456.0	2434.8	2441.5	2435.9	2427.0
5°	2450.6	2426.2	2434.7	2427.9	2425.7
7.5°	2432.9	2408.6	2419.8	2415.2	2413.0
10°	2416.6	2392.3	2405.3	2400.8	2398.6
12.5°	2394.9	2372.4	2387.3	2382.7	2382.3
15°	2357.9	2338.0	2357.9	2357.8	2355.6
17.5°	2311.3	2293.2	2314.5	2315.8	2314.5
20°	2278.7	2258.9	2285.5	2283.3	2285.5
22.5°	2239.0	2222.6	2251.2	2245.3	2247.6
25°	2177.0	2161.5	2192.8	2186.1	2186.1
27.5°	2103.8	2092.7	2126.8	2119.6	2119.6
30°	2054.9	2043.9	2079.8	2070.8	2070.8
32.5°	2000.7	1993.2	2027.4	2016.5	2016.5
35°	1914.8	1910.4	1944.2	1930.6	1930.6
37.5°	1826.2	1822.2	1852.8	1836.4	1831.1
40°	1761.1	1758.8	1785.9	1767.8	1767.8
42.5°	1695.9	1693.7	1717.2	1695.5	1695.5
45°	1596.0	1591.6	1607.3	1586.9	1582.5
47.5°	1487.1	1482.6	1492.5	1470.3	1468.1
50°	1412.9	1408.5	1412.9	1392.5	1390.3
52.5°	1337.0	1329.0	1329.7	1309.4	1308.9
55°	1220.8	1205.3	1204.9	1186.8	1186.8
57.5°	1097.8	1077.4	1079.2	1063.8	1061.6
60°	1012.8	990.7	992.4	978.8	976.6
62.5°	929.6	903.9	909.2	893.9	893.4
65°	791.2	773.5	775.4	768.6	768.6
67.5°	658.3	641.9	653.8	648.3	647.9
70°	560.6	549.6	565.2	565.1	562.9
72.5°	470.2	469.8	489.2	489.2	490.6
75°	341.4	356.8	377.5	379.8	379.8
77.5°	227.9	255.3	278.1	279.0	278.5
80°	162.8	193.7	214.8	219.2	217.0
82.5°	110.3	143.0	160.5	165.0	162.8
85°	49.7	76.3	90.4	92.6	90.4
87.5°	15.2	32.4	40.7	41.0	37.1
90°	3.5	10.3	22.6	24.3	22.6
92.5°	49.4	180.0	355.1	154.1	111.6
95°	116.5	408.9	1248.5	646.1	384.3
97.5°	187.1	469.0	1946.1	1610.6	1182.8
100°	240.0	493.3	2163.2	2255.9	1824.1
102.5°	288.7	527.0	2239.7	2745.3	2422.3
105°	377.3	583.1	2251.8	3321.6	3185.6
107.5°	459.4	647.1	2153.4	3681.2	3726.4
110°	523.4	693.4	2065.8	3777.7	3969.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	580.4	739.6	1985.1	3758.4	4081.1
115°	664.3	812.2	1867.6	3615.3	4081.1
117.5°	746.3	885.1	1790.0	3396.5	3924.6
120°	796.4	932.4	1744.1	3239.6	3778.6
122.5°	843.7	977.0	1716.3	3071.4	3614.4
125°	909.4	1042.1	1683.2	2840.4	3336.9
127.5°	969.9	1100.2	1663.8	2652.0	3088.6
130°	1003.3	1137.6	1655.4	2535.6	2930.0
132.5°	1038.1	1171.1	1647.1	2430.5	2793.7
135°	1090.3	1219.5	1638.0	2293.5	2596.1
137.5°	1142.8	1264.9	1630.4	2182.3	2428.9
140°	1179.0	1292.9	1627.6	2110.8	2330.1
142.5°	1213.7	1320.8	1622.0	2046.2	2238.3
145°	1267.6	1362.9	1615.4	1963.1	2112.7
147.5°	1316.7	1401.0	1607.8	1887.9	2002.8
150°	1352.8	1427.7	1605.0	1847.0	1938.8
152.5°	1386.2	1451.5	1603.6	1809.1	1884.6
155°	1431.1	1487.2	1601.5	1761.1	1818.9
157.5°	1477.7	1516.8	1601.9	1727.6	1765.7
160°	1504.1	1536.4	1603.2	1706.5	1733.7
162.5°	1525.0	1551.9	1604.6	1689.6	1710.0
165°	1558.0	1573.3	1608.5	1671.3	1679.8
167.5°	1580.6	1591.2	1608.8	1655.5	1659.6
170°	1594.5	1599.6	1610.2	1648.5	1648.5
172.5°	1605.7	1606.7	1610.2	1640.1	1638.7
175°	1617.2	1615.5	1610.2	1631.0	1627.6
177.5°	1621.0	1616.9	1609.9	1623.7	1619.6
180°	1615.4	1615.4	1615.4	1615.4	1615.4

(END OF REPORT)