

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: P565144

Luminaire Tested: **SQ4-PW1-150U-075D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565144
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-150U-075D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

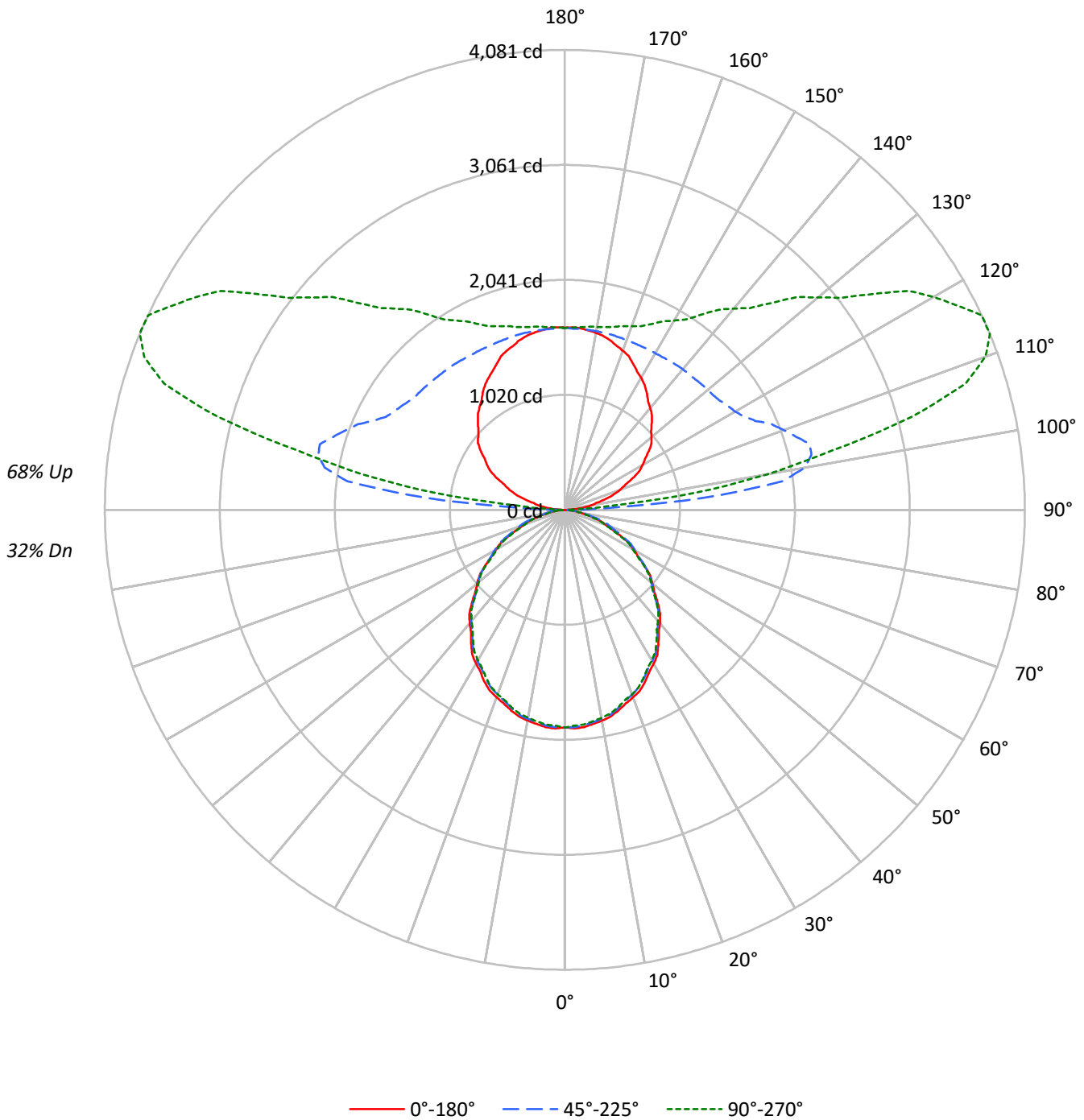
Lumens per Lamp: N/A
Luminaire Lumens: 15331.8 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 131.1
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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	64	62	60	49	48	46	35	34	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	28	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	22	21	17
5	65	54	46	40	59	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13
7	55	44	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8908	8908	8908
5°	8966	8895	8856
10°	8894	8823	8775
15°	8800	8703	8670
20°	8695	8561	8544
25°	8574	8418	8392
30°	8392	8266	8211
35°	8154	8039	7991
40°	7900	7777	7746
45°	7593	7492	7459
50°	7277	7216	7167
55°	6938	6938	6828
60°	6515	6640	6405
65°	5962	6259	5813
70°	5255	5761	5117
75°	4488	5155	4367
80°	3480	4338	3525
85°	2249	3335	2969



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.8	1.2
10°-20°	513.4	3.3
20°-30°	761.5	5.0
30°-40°	891.1	5.8
40°-50°	887.1	5.8
50°-60°	766.0	5.0
60°-70°	551.4	3.6
70°-80°	289.2	1.9
80°-90°	75.1	0.5
90°-100°	750.7	4.9
100°-110°	2029.9	13.2
110°-120°	2134.1	13.9
120°-130°	1733.5	11.3
130°-140°	1359.8	8.9
140°-150°	1043.6	6.8
150°-160°	750.6	4.9
160°-170°	458.5	3.0
170°-180°	154.6	1.0
0°-30°	1456.8	9.5
0°-40°	2347.8	15.3
0°-60°	4001.0	26.1
0°-90°	4916.6	32.1
90°-120°	4914.7	32.1
90°-150°	9051.5	59.0
90°-180°	10415.0	67.9
0°-180°	15331.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1931	1931	1931	1931	1931	
5°	1936	1915	1921	1916	1912	183
15°	1843	1819	1822	1819	1815	519
25°	1684	1656	1654	1644	1649	775
35°	1448	1428	1428	1414	1419	905
45°	1164	1154	1148	1145	1143	898
55°	863	861	863	851	849	770
65°	546	563	573	551	532	541
75°	252	275	289	270	245	270
85°	42	56	63	60	56	56
90°	4	10	23	24	23	9
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°	1931.1	1931.1	1931.1	1931.1	1931.1
2.5°	1942.0	1926.0	1931.1	1926.8	1917.5
5°	1936.2	1914.6	1920.9	1915.7	1912.4
7.5°	1916.5	1896.5	1901.2	1895.7	1893.7
10°	1898.8	1878.8	1883.5	1876.6	1873.2
12.5°	1878.4	1857.1	1861.7	1854.8	1852.8
15°	1842.6	1819.3	1822.2	1818.7	1815.4
17.5°	1801.1	1777.5	1778.0	1772.5	1771.8
20°	1771.2	1746.2	1743.9	1737.2	1740.5
22.5°	1738.5	1712.2	1709.9	1700.5	1705.1
25°	1684.4	1656.1	1653.8	1643.7	1648.7
27.5°	1621.8	1593.8	1593.9	1579.7	1585.0
30°	1575.5	1548.9	1551.7	1534.8	1541.5
32.5°	1526.5	1502.5	1504.0	1487.2	1493.8
35°	1447.9	1427.9	1427.5	1414.0	1419.0
37.5°	1367.6	1350.0	1347.2	1339.4	1340.7
40°	1311.8	1296.8	1291.4	1286.3	1286.3
42.5°	1253.3	1239.6	1234.2	1230.4	1229.1
45°	1163.8	1153.8	1148.4	1145.0	1143.3
47.5°	1075.3	1066.0	1061.3	1058.9	1057.3
50°	1014.0	1007.4	1005.5	1000.4	998.7
52.5°	952.8	948.8	947.0	940.5	938.8
55°	862.6	860.9	862.6	850.7	849.0
57.5°	768.7	771.4	776.9	760.8	756.8
60°	706.1	712.7	719.7	700.8	694.2
62.5°	642.1	652.8	662.5	640.9	631.6
65°	546.2	562.8	573.4	550.8	532.5
67.5°	453.6	474.2	486.9	462.7	442.0
70°	389.6	412.9	427.1	402.7	379.4
72.5°	333.8	359.8	371.2	348.3	325.0
75°	251.8	275.1	289.2	270.0	245.0
77.5°	178.6	200.6	212.3	195.5	174.9
80°	131.0	154.3	163.3	149.3	132.7
82.5°	92.9	112.2	118.4	110.0	98.7
85°	42.5	55.8	63.0	59.5	56.1
87.5°	11.6	22.3	30.4	30.8	31.7
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)