

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: P564948

Luminaire Tested: **SQ4-PW1-100U-075D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564948
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PW1-100U-075D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

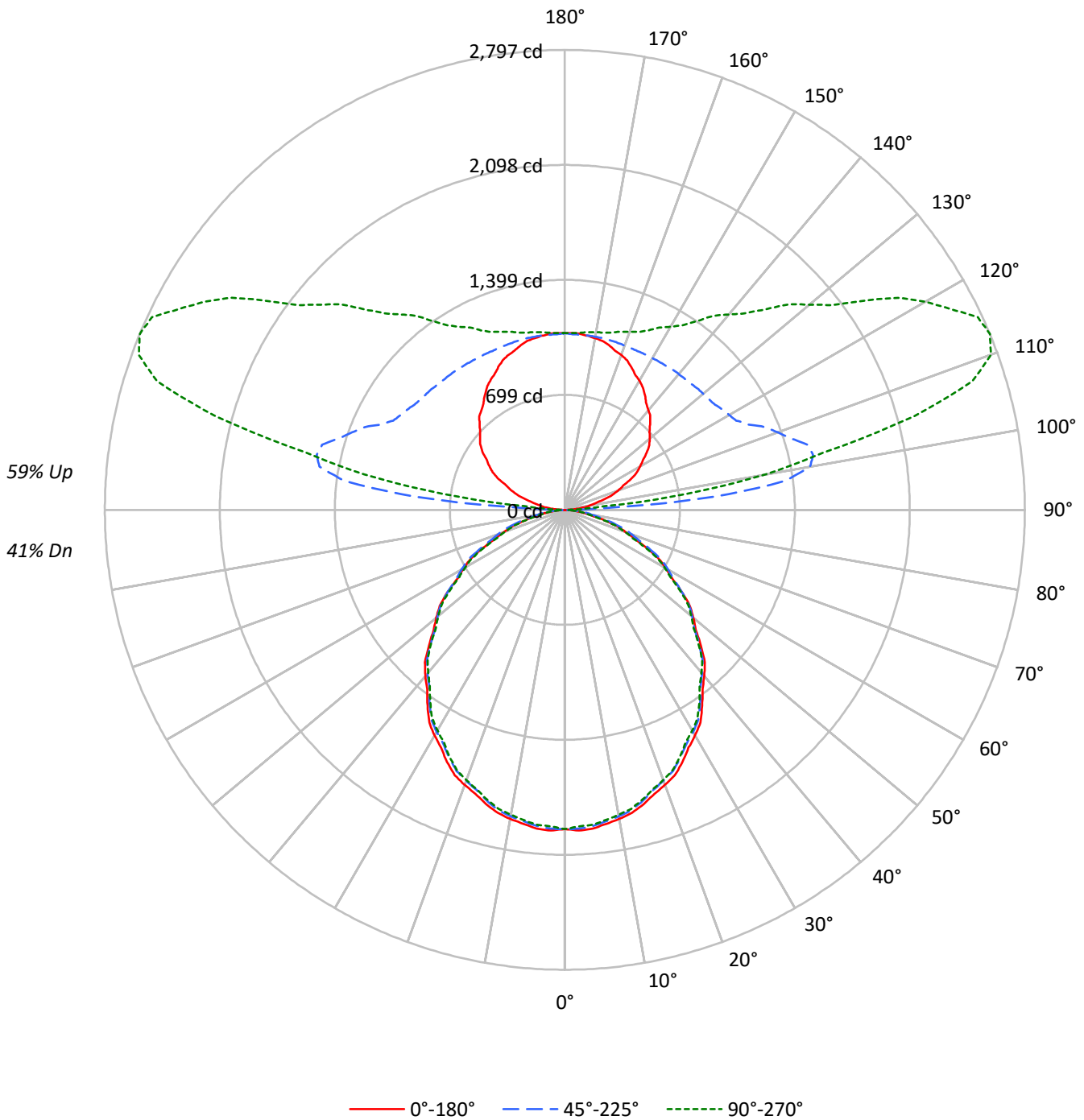
Lumens per Lamp: N/A
Luminaire Lumens: 11920.0 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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	48	48	48	41
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	43	42	41	35
2	87	80	74	69	79	73	68	64	60	57	54	49	46	44	38	36	35	30
3	80	70	63	58	72	65	58	53	53	49	45	43	40	37	33	31	29	25
4	73	62	55	49	66	57	50	45	47	42	38	38	35	32	30	27	25	22
5	67	55	48	42	61	51	44	39	42	37	33	34	31	28	27	24	22	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	22	19	16
7	57	45	37	32	52	41	34	29	35	29	25	28	24	21	22	19	17	15
8	53	41	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8954	8954	8954
5°	9012	8941	8901
10°	8940	8868	8820
15°	8845	8747	8714
20°	8739	8605	8588
25°	8617	8461	8435
30°	8435	8308	8253
35°	8196	8080	8032
40°	7940	7817	7785
45°	7631	7531	7497
50°	7315	7254	7204
55°	6973	6973	6863
60°	6548	6674	6437
65°	5992	6291	5843
70°	5282	5789	5144
75°	4511	5181	4390
80°	3499	4362	3544
85°	2265	3350	2985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	1.5
10°-20°	516.0	4.3
20°-30°	765.4	6.4
30°-40°	895.6	7.5
40°-50°	891.6	7.5
50°-60°	769.9	6.5
60°-70°	554.2	4.6
70°-80°	290.6	2.4
80°-90°	74.3	0.6
90°-100°	503.0	4.2
100°-110°	1388.8	11.7
110°-120°	1432.3	12.0
120°-130°	1150.9	9.7
130°-140°	904.5	7.6
140°-150°	693.7	5.8
150°-160°	498.6	4.2
160°-170°	304.9	2.6
170°-180°	102.8	0.9
0°-30°	1464.2	12.3
0°-40°	2359.8	19.8
0°-60°	4021.4	33.7
0°-90°	4940.5	41.4
90°-120°	3324.1	27.9
90°-150°	6073.2	50.9
90°-180°	6979.0	58.5
0°-180°	11920.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1941	1941	1941	1941	1941	
5°	1946	1924	1931	1926	1922	184
15°	1852	1829	1832	1828	1825	522
25°	1693	1665	1662	1652	1657	778
35°	1455	1435	1435	1421	1426	910
45°	1170	1160	1154	1151	1149	903
55°	867	865	867	855	853	774
65°	549	566	576	554	535	544
75°	253	276	291	271	246	271
85°	43	56	63	60	56	56
90°	3	7	14	16	17	7
95°	74	272	913	375	244	79
105°	248	382	1528	2333	2196	263
115°	443	536	1231	2436	2770	436
125°	608	692	1115	1888	2215	541
135°	732	811	1084	1529	1724	566
145°	849	908	1071	1302	1401	532
155°	957	989	1062	1168	1205	441
165°	1036	1050	1067	1109	1117	292
175°	1074	1076	1069	1084	1081	102
180°	1074	1074	1074	1074	1074	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1941.0	1941.0	1941.0	1941.0	1941.0
2.5°	1951.9	1935.8	1941.0	1936.6	1927.3
5°	1946.1	1924.3	1930.7	1925.5	1922.1
7.5°	1926.2	1906.2	1910.9	1905.3	1903.3
10°	1908.5	1888.4	1893.1	1886.2	1882.8
12.5°	1887.9	1866.5	1871.2	1864.3	1862.3
15°	1852.0	1828.6	1831.5	1828.0	1824.7
17.5°	1810.3	1786.6	1787.0	1781.6	1780.9
20°	1780.2	1755.1	1752.8	1746.1	1749.4
22.5°	1747.4	1721.0	1718.6	1709.2	1713.9
25°	1693.0	1664.6	1662.2	1652.1	1657.1
27.5°	1630.1	1602.0	1602.0	1587.8	1593.1
30°	1583.5	1556.8	1559.6	1542.7	1549.3
32.5°	1534.3	1510.2	1511.7	1494.8	1501.5
35°	1455.3	1435.2	1434.8	1421.2	1426.2
37.5°	1374.6	1356.8	1354.0	1346.2	1347.6
40°	1318.5	1303.4	1298.0	1292.8	1292.8
42.5°	1259.7	1245.9	1240.5	1236.7	1235.4
45°	1169.7	1159.7	1154.3	1150.9	1149.2
47.5°	1080.8	1071.4	1066.8	1064.3	1062.7
50°	1019.2	1012.5	1010.7	1005.5	1003.8
52.5°	957.7	953.6	951.8	945.3	943.6
55°	867.0	865.3	867.0	855.0	853.3
57.5°	772.6	775.3	780.8	764.7	760.6
60°	709.7	716.4	723.4	704.4	697.7
62.5°	645.4	656.1	665.9	644.1	634.8
65°	548.9	565.7	576.3	553.7	535.3
67.5°	455.9	476.6	489.4	465.0	444.3
70°	391.6	415.0	429.2	404.8	381.4
72.5°	335.5	361.6	373.1	350.0	326.6
75°	253.1	276.5	290.7	271.3	246.3
77.5°	179.6	201.6	213.4	196.5	175.8
80°	131.7	155.1	164.2	150.1	133.4
82.5°	93.4	112.8	119.0	110.6	99.2
85°	42.8	56.1	63.3	59.8	56.4
87.5°	11.6	21.7	28.7	29.1	30.8
90°	3.4	6.8	13.7	15.5	17.2
92.5°	30.9	128.4	229.6	83.8	65.3
95°	73.9	272.2	912.6	375.1	244.1
97.5°	122.4	304.9	1351.9	1040.9	753.8
100°	158.1	324.5	1514.2	1524.9	1239.2
102.5°	192.5	346.8	1545.8	1884.1	1613.2
105°	247.5	381.9	1527.9	2332.6	2196.5
107.5°	305.9	425.6	1442.7	2548.9	2598.7
110°	347.2	454.7	1376.7	2595.5	2756.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	384.3	487.8	1314.8	2558.7	2796.7
115°	443.4	535.9	1230.6	2436.1	2770.5
117.5°	495.0	587.1	1175.2	2263.6	2644.0
120°	529.4	620.1	1153.2	2146.8	2529.9
122.5°	562.4	649.1	1135.4	2037.7	2400.7
125°	608.4	692.4	1115.4	1887.7	2215.4
127.5°	647.6	731.6	1103.7	1760.9	2043.5
130°	673.7	757.8	1098.2	1683.3	1940.4
132.5°	698.5	778.5	1092.7	1618.1	1851.0
135°	732.2	811.1	1084.5	1528.9	1723.9
137.5°	770.0	841.9	1080.4	1454.0	1620.4
140°	790.6	861.2	1077.6	1404.1	1550.3
142.5°	814.0	879.2	1074.9	1359.7	1488.4
145°	849.0	907.9	1070.7	1301.6	1400.7
147.5°	882.7	934.1	1067.0	1252.6	1329.6
150°	907.5	949.5	1065.6	1223.4	1285.6
152.5°	926.7	966.0	1064.2	1198.4	1249.8
155°	957.3	989.2	1062.2	1167.8	1204.8
157.5°	985.5	1010.0	1062.5	1145.6	1170.8
160°	1002.0	1023.8	1063.9	1133.0	1151.5
162.5°	1015.8	1034.9	1065.2	1122.0	1136.4
165°	1036.4	1049.8	1067.3	1108.8	1117.2
167.5°	1052.2	1060.3	1069.0	1100.7	1103.4
170°	1060.4	1067.2	1069.0	1096.5	1096.5
172.5°	1067.3	1071.3	1069.0	1091.0	1089.7
175°	1074.2	1075.9	1069.0	1084.4	1081.1
177.5°	1076.9	1075.6	1068.7	1078.2	1075.6
180°	1074.2	1074.2	1074.2	1074.2	1074.2

(END OF REPORT)