

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: P564067

Luminaire Tested: **SQ4-PR1-075U-075D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564067
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-075U-075D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

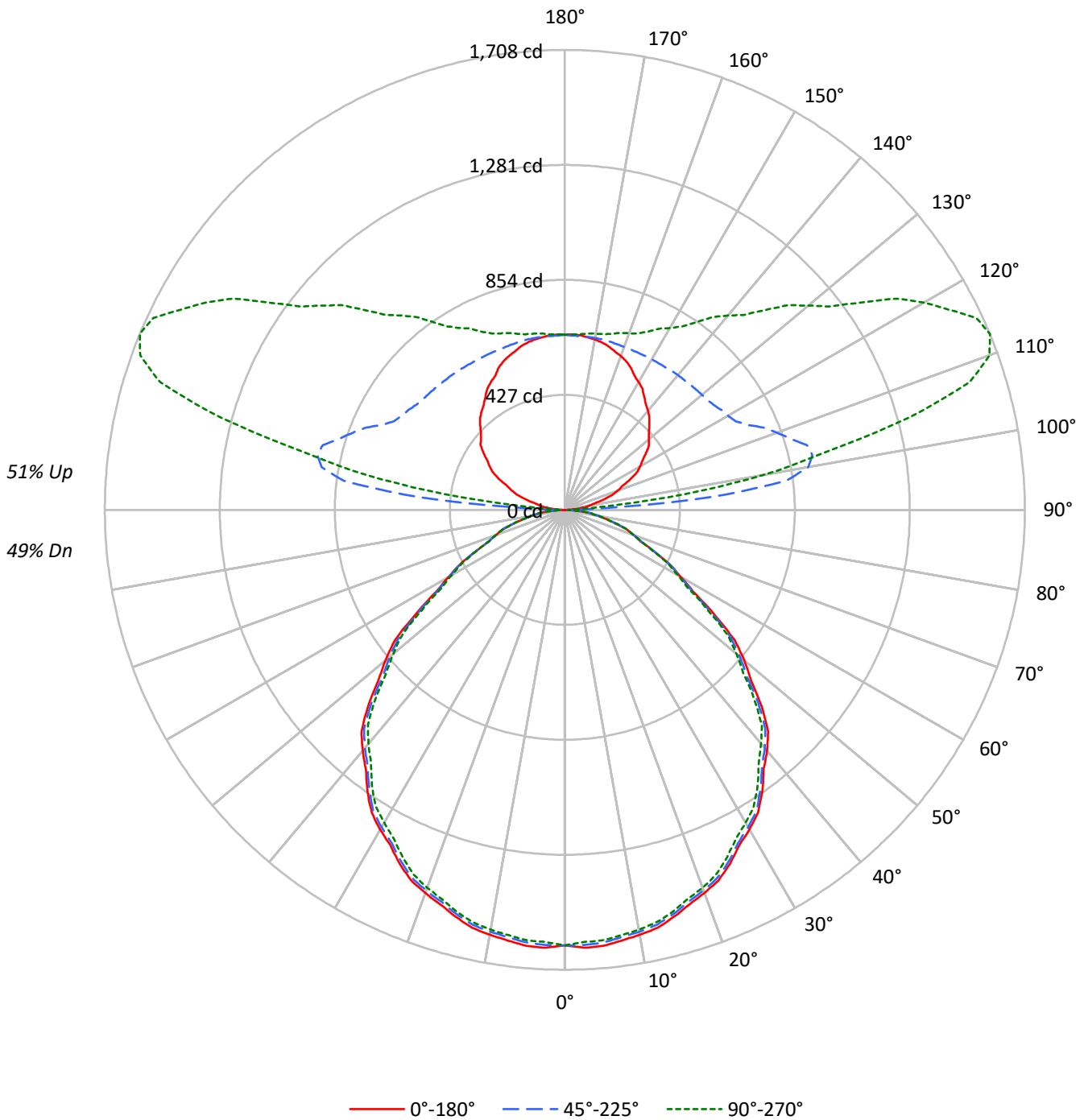
Lumens per Lamp: N/A
Luminaire Lumens: 8284.2 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	94	90	86	90	86	83	80	73	71	68	60	59	57	49	48	47	42
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	44	42	40	35
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	39	36	34	30
4	75	64	56	50	69	59	53	47	51	45	41	42	39	36	35	32	30	26
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23
6	63	51	43	38	58	48	41	36	41	35	31	35	30	27	29	25	23	20
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	21	18
8	54	42	35	29	50	39	32	28	34	28	25	29	25	21	24	21	18	16
9	51	39	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	21	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9950	9950	9950
5°	10039	9962	9910
10°	10007	9938	9886
15°	9963	9901	9848
20°	9913	9849	9776
25°	9843	9777	9664
30°	9737	9668	9529
35°	9593	9510	9374
40°	9375	9274	9106
45°	8993	8835	8653
50°	8319	8119	7959
55°	7261	7097	6948
60°	6119	6067	5948
65°	5292	5312	5273
70°	4861	4886	4886
75°	4670	4670	4701
80°	4392	4442	4392
85°	3543	3931	3931



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.0	1.8
10°-20°	437.7	5.3
20°-30°	660.1	8.0
30°-40°	786.5	9.5
40°-50°	775.5	9.4
50°-60°	592.6	7.2
60°-70°	366.7	4.4
70°-80°	208.3	2.5
80°-90°	65.0	0.8
90°-100°	306.9	3.7
100°-110°	844.3	10.2
110°-120°	871.5	10.5
120°-130°	698.2	8.4
130°-140°	548.4	6.6
140°-150°	420.3	5.1
150°-160°	302.2	3.6
160°-170°	184.8	2.2
170°-180°	62.3	0.8
0°-30°	1250.7	15.1
0°-40°	2037.3	24.6
0°-60°	3405.4	41.1
0°-90°	4045.4	48.8
90°-120°	2022.6	24.4
90°-150°	3689.5	44.5
90°-180°	4239.0	51.2
0°-180°	8284.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1618	1618	1618	1618	1618	
5°	1626	1608	1613	1608	1605	154
15°	1565	1548	1555	1549	1546	442
25°	1450	1433	1441	1425	1424	667
35°	1278	1263	1266	1250	1248	797
45°	1034	1020	1016	998	995	792
55°	677	666	662	651	648	607
65°	364	361	365	362	362	368
75°	196	196	196	198	198	207
85°	50	53	56	56	56	58
90°	1	5	10	12	12	5
95°	46	168	543	232	148	48
105°	151	232	930	1417	1322	159
115°	267	325	746	1486	1686	264
125°	368	420	677	1145	1341	328
135°	444	493	658	926	1048	343
145°	514	549	648	789	850	322
155°	581	600	644	709	730	267
165°	628	637	646	673	677	177
175°	651	652	648	656	655	62
180°	651	651	651	651	651	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1617.6	1617.6	1617.6	1617.6	1617.6
2.5°	1627.6	1613.4	1617.6	1614.1	1606.4
5°	1625.9	1608.2	1613.4	1607.8	1605.0
7.5°	1613.4	1596.0	1601.1	1595.5	1593.9
10°	1602.3	1585.9	1591.1	1585.5	1582.8
12.5°	1590.0	1572.6	1578.9	1572.1	1569.4
15°	1564.6	1548.3	1554.9	1549.3	1546.5
17.5°	1536.8	1519.3	1525.9	1519.4	1515.9
20°	1514.5	1498.1	1504.7	1494.9	1493.6
22.5°	1490.0	1473.6	1480.2	1467.1	1466.8
25°	1450.4	1432.7	1440.6	1425.3	1423.9
27.5°	1403.3	1387.0	1393.5	1377.9	1376.3
30°	1371.0	1354.6	1361.2	1344.4	1341.7
32.5°	1334.2	1318.9	1324.4	1307.7	1306.1
35°	1277.6	1262.6	1266.5	1249.7	1248.4
37.5°	1213.3	1199.6	1201.8	1183.4	1182.1
40°	1167.6	1153.9	1155.0	1135.5	1134.1
42.5°	1117.4	1103.8	1102.6	1083.1	1081.7
45°	1033.8	1020.2	1015.7	997.5	994.8
47.5°	938.5	924.9	916.5	901.7	899.8
50°	869.4	855.8	848.5	835.9	831.8
52.5°	794.7	781.1	774.9	763.4	759.3
55°	677.1	666.2	661.8	650.6	647.9
57.5°	565.4	558.0	556.8	545.9	544.8
60°	497.4	493.3	493.2	483.5	483.5
62.5°	439.4	436.4	438.6	432.2	431.1
65°	363.6	360.9	365.0	362.3	362.3
67.5°	303.7	303.7	306.2	305.1	305.1
70°	270.3	270.3	271.7	271.7	271.7
72.5°	240.2	239.1	242.7	242.7	241.6
75°	196.5	196.5	196.5	197.8	197.8
77.5°	153.0	153.3	154.4	154.1	153.0
80°	124.0	125.4	125.4	124.0	124.0
82.5°	95.0	96.4	96.4	96.1	95.0
85°	50.2	52.9	55.7	55.7	55.7
87.5°	14.8	19.9	24.2	24.8	23.7
90°	1.4	5.4	9.7	12.5	12.5
92.5°	19.1	81.6	141.5	54.3	44.6
95°	45.7	167.5	542.7	232.0	148.1
97.5°	74.5	185.7	828.1	638.1	450.2
100°	95.5	197.0	917.8	926.4	755.9
102.5°	115.5	210.5	941.1	1149.3	992.9
105°	150.9	232.1	930.3	1416.8	1322.1
107.5°	184.7	258.9	877.4	1547.8	1576.0
110°	209.0	276.7	837.5	1580.4	1677.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	231.2	296.7	797.7	1559.4	1707.7
115°	267.2	325.4	746.2	1485.8	1686.1
117.5°	301.5	355.1	713.5	1382.6	1609.2
120°	322.6	374.0	699.1	1305.2	1539.4
122.5°	341.4	392.8	689.1	1237.4	1459.7
125°	368.2	419.7	677.0	1145.2	1341.4
127.5°	393.7	442.7	668.9	1068.2	1240.4
130°	407.0	457.1	664.5	1022.5	1179.5
132.5°	422.5	472.6	661.2	982.2	1124.1
135°	444.4	493.1	657.6	926.1	1048.0
137.5°	464.9	510.1	654.5	880.8	981.2
140°	480.4	522.3	653.4	850.7	941.4
142.5°	493.7	532.4	651.2	823.8	901.5
145°	513.6	548.8	647.9	789.1	850.0
147.5°	534.9	565.2	646.2	758.4	807.1
150°	548.2	575.3	645.1	741.5	779.4
152.5°	560.4	585.3	644.0	726.9	758.4
155°	581.4	600.4	643.7	709.3	729.6
157.5°	596.7	612.1	643.7	694.7	708.8
160°	607.7	619.9	643.7	686.9	697.7
162.5°	616.6	626.6	644.8	680.2	688.9
165°	628.5	636.6	646.5	672.9	677.0
167.5°	636.8	643.0	647.9	666.7	667.8
170°	642.3	646.4	647.9	664.5	664.5
172.5°	646.8	648.7	647.9	661.1	660.1
175°	650.6	652.0	647.9	656.2	654.8
177.5°	651.8	651.8	647.3	653.9	651.8
180°	650.6	650.6	650.6	650.6	650.6

(END OF REPORT)