

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: P523868

Luminaire Tested: **SQ4-PP3-100U-125D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523868
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-100U-125D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9378.9 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

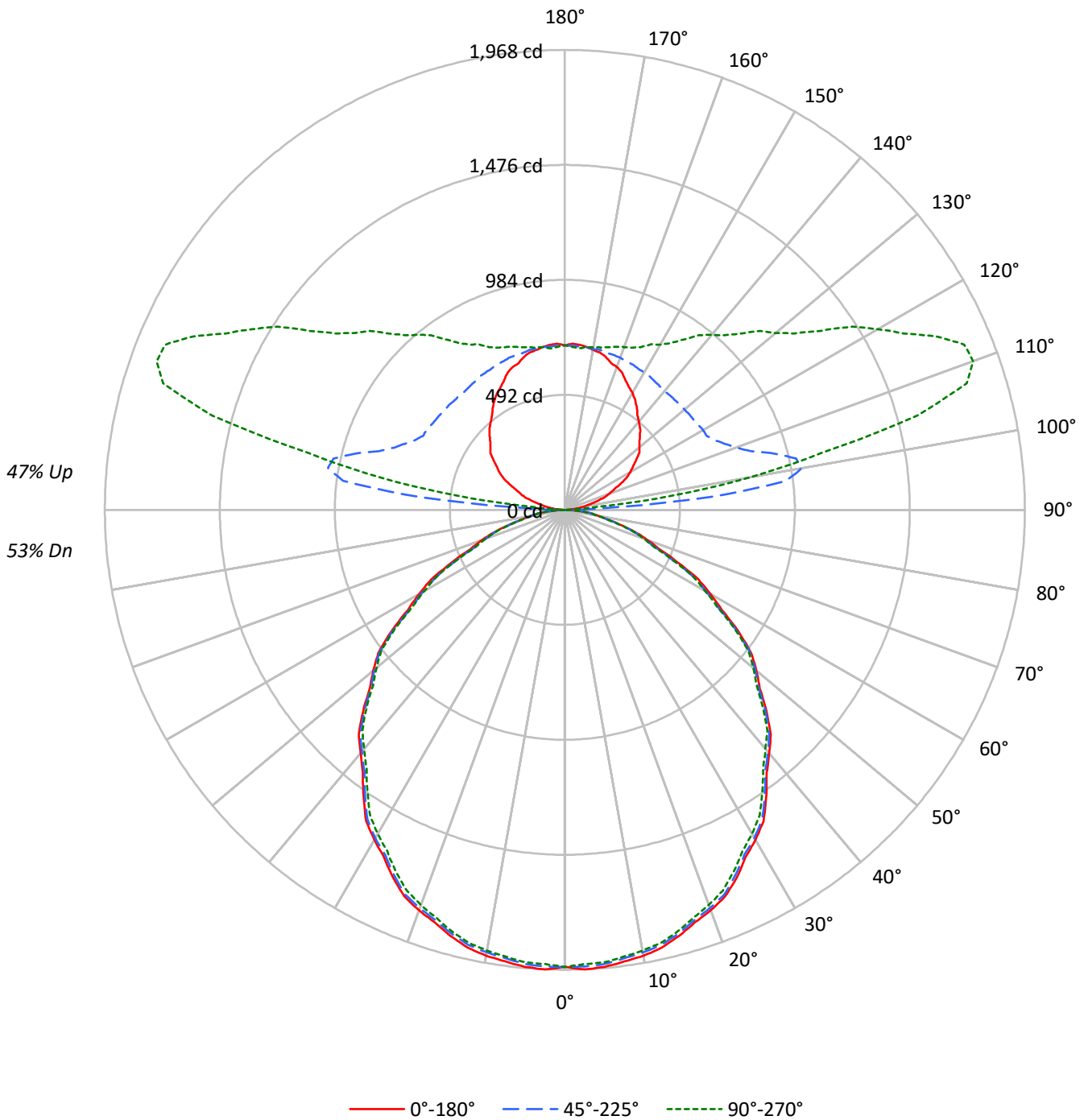
Input Watts (W): 88.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	99	95	91	87	91	88	84	81	75	73	70	63	62	60	53	52	50	45
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43	38
3	82	73	66	60	76	68	61	56	58	54	50	50	46	43	41	39	37	33
4	75	65	57	51	70	60	53	48	52	47	42	44	40	37	37	34	32	28
5	69	58	49	44	64	54	47	41	47	41	37	40	35	32	33	30	28	24
6	64	52	44	38	59	48	41	36	42	36	32	36	31	28	30	27	24	22
7	59	47	39	33	55	44	37	31	38	32	28	33	28	25	28	24	22	19
8	55	42	35	29	51	40	33	28	35	29	25	30	25	22	25	22	19	17
9	51	39	31	26	47	36	30	25	32	26	22	28	23	20	24	20	18	15
10	48	36	28	23	44	33	27	22	29	24	20	25	21	18	22	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18046	18046	18046
5°	18179	18068	18004
10°	18149	18019	17940
15°	18028	17930	17832
20°	17909	17807	17673
25°	17696	17574	17400
30°	17368	17277	17058
35°	16914	16798	16586
40°	16373	16270	16083
45°	15926	15814	15657
50°	15354	15256	15108
55°	14560	14367	14256
60°	13254	12874	12812
65°	11677	11191	11153
70°	10081	9665	9665
75°	8677	8555	8434
80°	7651	7741	7561
85°	5992	6531	6531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.0	2.0
10°-20°	528.1	5.6
20°-30°	791.1	8.4
30°-40°	927.9	9.9
40°-50°	930.8	9.9
50°-60°	794.0	8.5
60°-70°	517.8	5.5
70°-80°	259.8	2.8
80°-90°	71.9	0.8
90°-100°	320.7	3.4
100°-110°	912.7	9.7
110°-120°	874.4	9.3
120°-130°	692.1	7.4
130°-140°	555.5	5.9
140°-150°	434.9	4.6
150°-160°	318.2	3.4
160°-170°	197.1	2.1
170°-180°	66.9	0.7
0°-30°	1504.1	16.0
0°-40°	2432.0	25.9
0°-60°	4156.8	44.3
0°-90°	5006.3	53.4
90°-120°	2107.9	22.5
90°-150°	3790.4	40.4
90°-180°	4373.0	46.6
0°-180°	9378.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1956	1956	1956	1956	1956	
5°	1963	1944	1951	1944	1944	186
15°	1887	1869	1877	1870	1867	532
25°	1738	1718	1726	1711	1709	799
35°	1502	1487	1491	1474	1473	938
45°	1221	1212	1212	1200	1200	940
55°	905	902	893	888	886	804
65°	535	525	513	509	511	534
75°	243	243	240	238	237	264
85°	57	62	62	62	62	66
90°	0	0	0	0	0	4
95°	35	138	621	215	132	40
105°	142	215	930	1643	1562	150
115°	264	319	705	1494	1754	260
125°	372	413	673	1117	1336	333
135°	455	493	665	944	1067	351
145°	537	564	670	817	890	335
155°	613	627	686	738	768	283
165°	677	680	695	710	720	190
175°	709	705	703	698	693	67
180°	704	704	704	704	704	

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CATALOG NUMBER: SQ4-PP3-100U-125D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1956.0	1956.0	1956.0	1956.0	1956.0
2.5°	1968.4	1952.3	1956.0	1953.1	1945.0
5°	1962.9	1944.4	1950.9	1944.0	1944.0
7.5°	1949.5	1929.4	1935.8	1928.9	1928.6
10°	1937.2	1917.0	1923.4	1916.6	1914.9
12.5°	1919.3	1899.2	1907.0	1898.8	1898.4
15°	1887.4	1869.0	1877.2	1870.2	1866.9
17.5°	1851.4	1831.3	1841.2	1831.5	1830.2
20°	1824.0	1803.9	1813.7	1800.0	1800.0
22.5°	1791.1	1771.0	1782.2	1764.4	1764.4
25°	1738.3	1718.2	1726.3	1710.8	1709.2
27.5°	1675.6	1655.8	1664.2	1646.8	1646.4
30°	1630.3	1611.9	1621.7	1602.8	1601.2
32.5°	1580.9	1563.8	1571.0	1552.1	1550.4
35°	1501.7	1486.6	1491.4	1474.3	1472.6
37.5°	1418.4	1403.0	1408.5	1393.7	1393.0
40°	1359.4	1349.4	1350.9	1338.8	1335.4
42.5°	1304.6	1293.2	1294.6	1282.6	1282.0
45°	1220.6	1212.2	1212.0	1200.0	1200.0
47.5°	1131.4	1125.1	1123.2	1113.3	1112.9
50°	1069.7	1064.7	1062.9	1054.3	1052.6
52.5°	1005.3	1002.9	997.0	989.8	989.5
55°	905.2	901.8	893.2	888.0	886.3
57.5°	796.5	789.8	780.0	772.5	773.8
60°	718.3	711.6	697.7	694.3	694.3
62.5°	642.9	634.8	620.9	616.2	618.9
65°	534.9	524.8	512.6	509.2	510.9
67.5°	436.8	427.8	414.5	414.5	413.1
70°	373.7	368.7	358.3	358.3	358.3
72.5°	317.5	315.1	307.5	307.5	306.2
75°	243.4	243.4	240.0	238.2	236.6
77.5°	182.4	183.1	181.4	179.6	176.6
80°	144.0	147.4	145.7	144.0	142.3
82.5°	108.3	111.7	111.4	108.3	108.0
85°	56.6	61.6	61.7	61.7	61.7
87.5°	15.1	20.4	21.9	22.0	23.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.7	56.8	131.7	38.3	28.9
95°	34.8	138.2	620.9	214.9	132.5
97.5°	64.0	161.8	956.3	684.3	468.9
100°	84.3	175.9	1029.1	1042.4	802.9
102.5°	106.8	191.1	1013.1	1334.3	1125.2
105°	141.9	215.1	930.1	1642.9	1561.7
107.5°	177.5	243.1	833.2	1729.9	1802.1
110°	202.1	263.6	777.5	1696.6	1858.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	225.6	284.0	740.1	1617.8	1849.2
115°	263.6	318.6	705.3	1494.1	1754.4
117.5°	297.1	348.6	684.6	1358.7	1634.5
120°	323.9	367.0	682.5	1281.4	1545.7
122.5°	345.3	388.4	677.2	1213.5	1459.0
125°	372.0	412.6	673.1	1117.1	1335.6
127.5°	401.2	439.2	671.0	1059.4	1239.5
130°	416.2	454.1	667.8	1019.3	1176.3
132.5°	432.3	469.2	667.8	988.0	1132.4
135°	455.0	493.0	665.1	943.6	1066.6
137.5°	476.4	513.3	664.8	906.0	1012.3
140°	492.5	530.4	663.8	874.9	976.9
142.5°	510.7	542.3	667.0	850.0	941.6
145°	536.6	564.1	670.5	816.7	889.9
147.5°	558.9	585.5	676.4	783.0	846.3
150°	578.1	596.4	678.5	771.8	816.3
152.5°	593.1	612.5	680.6	756.8	798.1
155°	612.9	627.3	686.5	738.1	768.2
157.5°	637.5	646.2	687.9	729.6	751.0
160°	650.4	656.9	693.2	723.1	741.4
162.5°	657.9	665.5	694.3	717.6	731.8
165°	677.2	679.8	694.6	709.5	720.0
167.5°	690.3	687.9	700.7	707.5	711.7
170°	694.6	693.2	698.6	700.0	705.3
172.5°	704.2	699.7	701.8	697.9	702.0
175°	709.3	705.3	702.6	698.4	693.2
177.5°	711.4	705.1	701.8	697.5	698.6
180°	703.9	703.9	703.9	703.9	703.9

(END OF REPORT)