

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: P563625

Luminaire Tested: **SQ4-PP3-100U-100D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563625
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-100U-100D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

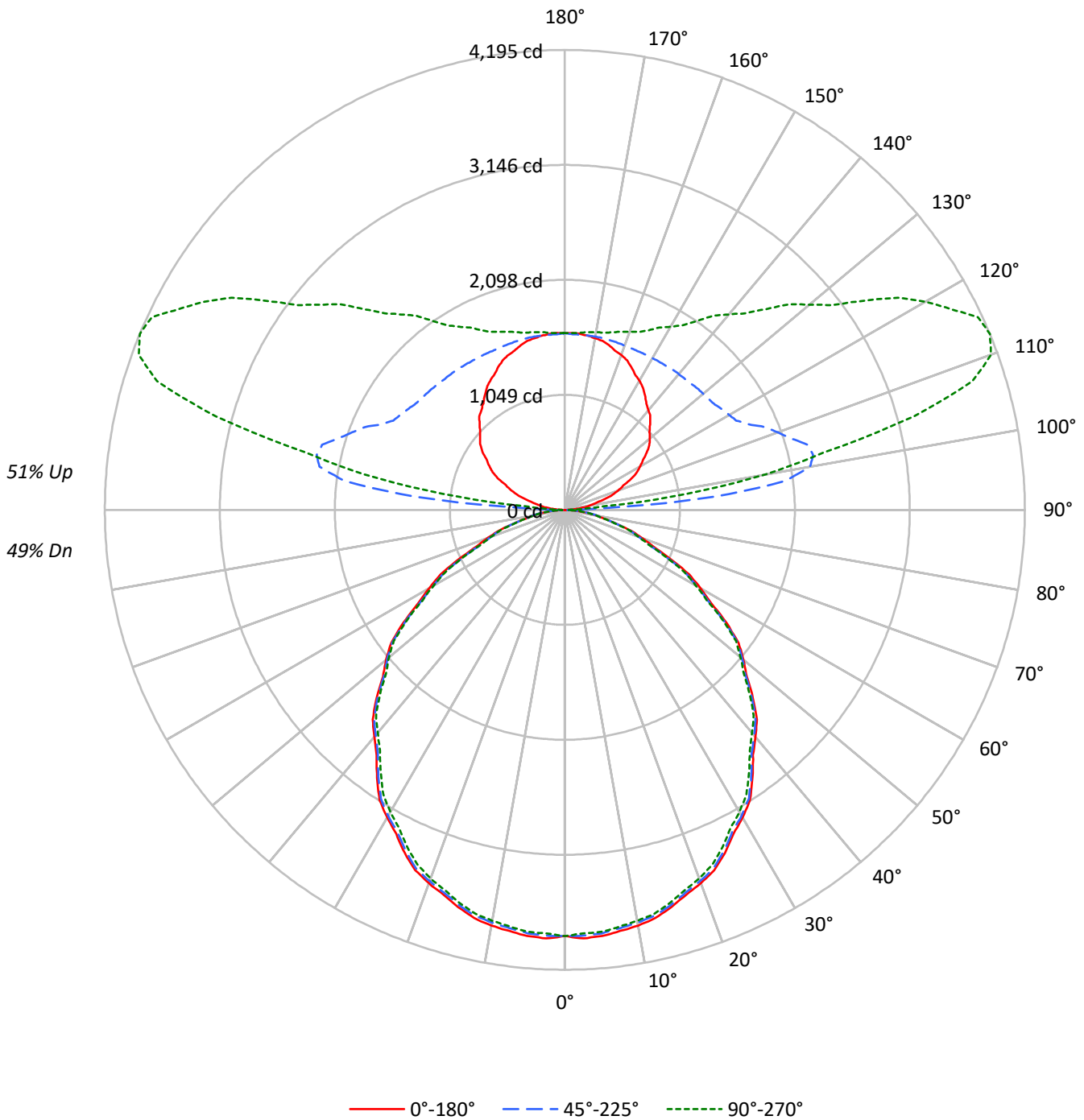
Lumens per Lamp: N/A
Luminaire Lumens: 20423.6 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 182.2
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	40	35
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	38	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	22	20	17
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11957	11957	11957
5°	12045	11971	11929
10°	12025	11939	11886
15°	11945	11880	11815
20°	11866	11799	11710
25°	11725	11644	11528
30°	11508	11447	11302
35°	11207	11130	10989
40°	10848	10780	10656
45°	10552	10478	10374
50°	10173	10108	10010
55°	9647	9519	9446
60°	8781	8530	8488
65°	7736	7414	7389
70°	6679	6404	6404
75°	5750	5668	5587
80°	5069	5129	5009
85°	3966	4330	4330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.6	1.8
10°-20°	1049.7	5.1
20°-30°	1572.4	7.7
30°-40°	1844.3	9.0
40°-50°	1850.1	9.1
50°-60°	1578.3	7.7
60°-70°	1029.3	5.0
70°-80°	516.4	2.5
80°-90°	146.2	0.7
90°-100°	754.6	3.7
100°-110°	2083.1	10.2
110°-120°	2148.4	10.5
120°-130°	1726.4	8.5
130°-140°	1356.8	6.6
140°-150°	1040.6	5.1
150°-160°	747.9	3.7
160°-170°	457.3	2.2
170°-180°	154.2	0.8
0°-30°	2989.8	14.6
0°-40°	4834.1	23.7
0°-60°	8262.4	40.5
0°-90°	9954.3	48.7
90°-120°	4986.1	24.4
90°-150°	9109.9	44.6
90°-180°	10469.0	51.3
0°-180°	20423.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3888	3888	3888	3888	3888	
5°	3902	3865	3878	3864	3864	371
15°	3752	3715	3731	3717	3711	1058
25°	3455	3415	3431	3401	3397	1589
35°	2985	2955	2964	2930	2927	1865
45°	2426	2410	2409	2385	2385	1868
55°	1799	1792	1775	1765	1762	1599
65°	1063	1043	1019	1012	1015	1061
75°	484	484	477	474	470	525
85°	112	122	123	123	123	132
90°	5	10	21	23	26	12
95°	111	408	1369	563	366	119
105°	371	573	2292	3499	3295	395
115°	665	804	1846	3654	4156	654
125°	913	1039	1673	2832	3323	812
135°	1098	1217	1627	2293	2586	850
145°	1274	1362	1606	1952	2101	797
155°	1436	1484	1593	1752	1807	662
165°	1555	1575	1601	1663	1676	438
175°	1611	1614	1604	1627	1622	153
180°	1611	1611	1611	1611	1611	

TEST NUMBER: P563625

CATALOG NUMBER: SQ4-PP3-100U-100D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3887.9	3887.9	3887.9	3887.9	3887.9
2.5°	3912.5	3880.5	3887.9	3882.1	3866.1
5°	3901.6	3864.9	3877.7	3864.1	3864.1
7.5°	3875.0	3835.0	3847.7	3834.1	3833.4
10°	3850.5	3810.5	3823.2	3809.5	3806.2
12.5°	3815.0	3775.0	3790.5	3774.1	3773.5
15°	3751.6	3715.0	3731.2	3717.4	3710.8
17.5°	3680.1	3640.1	3659.6	3640.5	3637.8
20°	3625.6	3585.6	3605.1	3577.9	3577.9
22.5°	3560.1	3520.2	3542.4	3507.0	3507.0
25°	3455.2	3415.2	3431.3	3400.6	3397.3
27.5°	3330.5	3291.2	3308.0	3273.2	3272.6
30°	3240.5	3203.9	3223.5	3185.9	3182.6
32.5°	3142.4	3108.4	3122.6	3085.1	3081.7
35°	2985.0	2955.0	2964.5	2930.4	2927.0
37.5°	2819.4	2788.7	2799.6	2770.3	2768.9
40°	2702.1	2682.2	2685.1	2661.1	2654.4
42.5°	2593.1	2570.4	2573.3	2549.5	2548.1
45°	2426.1	2409.5	2409.1	2385.2	2385.2
47.5°	2248.9	2236.3	2232.6	2212.8	2212.1
50°	2126.3	2116.3	2112.6	2095.5	2092.2
52.5°	1998.2	1993.5	1981.8	1967.5	1966.8
55°	1799.2	1792.5	1775.3	1765.0	1761.7
57.5°	1583.1	1569.8	1550.4	1535.5	1538.1
60°	1427.7	1414.4	1386.8	1380.0	1380.0
62.5°	1277.8	1261.8	1234.2	1224.8	1230.1
65°	1063.1	1043.1	1018.8	1012.1	1015.4
67.5°	868.2	850.2	823.9	823.9	821.2
70°	742.8	732.8	712.2	712.2	712.2
72.5°	631.1	626.4	611.3	611.2	608.6
75°	483.9	483.9	477.0	473.6	470.2
77.5°	362.6	363.9	360.5	357.0	351.0
80°	286.2	292.9	289.6	286.2	282.8
82.5°	215.4	222.0	221.5	215.3	214.7
85°	112.4	122.4	122.7	122.7	122.7
87.5°	31.0	42.7	47.7	48.3	51.5
90°	5.2	10.2	20.6	23.3	25.8
92.5°	46.4	192.6	344.4	125.7	98.0
95°	110.9	408.3	1368.9	562.7	366.1
97.5°	183.6	457.3	2027.9	1561.3	1130.7
100°	237.2	486.7	2271.3	2287.3	1858.8
102.5°	288.7	520.1	2318.7	2826.1	2419.8
105°	371.2	572.9	2291.9	3498.9	3294.7
107.5°	458.9	638.4	2164.0	3823.4	3898.0
110°	520.8	682.1	2065.0	3893.2	4135.2



TEST NUMBER: P563625

CATALOG NUMBER: SQ4-PP3-100U-100D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	576.5	731.7	1972.2	3838.1	4195.0
115°	665.1	803.8	1845.9	3654.2	4155.8
117.5°	742.5	880.6	1762.9	3395.4	3966.1
120°	794.0	930.2	1729.9	3220.2	3794.9
122.5°	843.5	973.6	1703.1	3056.5	3601.0
125°	912.6	1038.7	1673.2	2831.6	3323.1
127.5°	971.4	1097.4	1655.6	2641.3	3065.3
130°	1010.6	1136.6	1647.4	2524.9	2910.6
132.5°	1047.7	1167.7	1639.1	2427.2	2776.6
135°	1098.2	1216.7	1626.7	2293.4	2585.8
137.5°	1155.0	1262.9	1620.6	2181.0	2430.6
140°	1185.9	1291.8	1616.4	2106.1	2325.4
142.5°	1221.0	1318.8	1612.3	2039.5	2232.6
145°	1273.6	1361.8	1606.1	1952.4	2101.1
147.5°	1324.1	1401.2	1600.5	1878.9	1994.4
150°	1361.2	1424.2	1598.4	1835.1	1928.4
152.5°	1390.1	1449.1	1596.3	1797.6	1874.8
155°	1436.0	1483.9	1593.2	1751.8	1807.2
157.5°	1478.3	1515.1	1593.7	1718.4	1756.2
160°	1503.0	1535.8	1595.8	1699.6	1727.3
162.5°	1523.6	1552.4	1597.9	1682.9	1704.6
165°	1554.6	1574.7	1601.0	1663.1	1675.7
167.5°	1578.3	1590.4	1603.5	1651.1	1655.1
170°	1590.7	1600.7	1603.5	1644.8	1644.8
172.5°	1601.0	1607.0	1603.5	1636.5	1634.5
175°	1611.3	1613.8	1603.5	1626.6	1621.6
177.5°	1615.4	1613.4	1603.0	1617.4	1613.3
180°	1611.3	1611.3	1611.3	1611.3	1611.3

(END OF REPORT)