

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: P564773

Luminaire Tested: **SQ4-PW1-075U-100D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564773
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PW1-075U-100D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16163.6 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

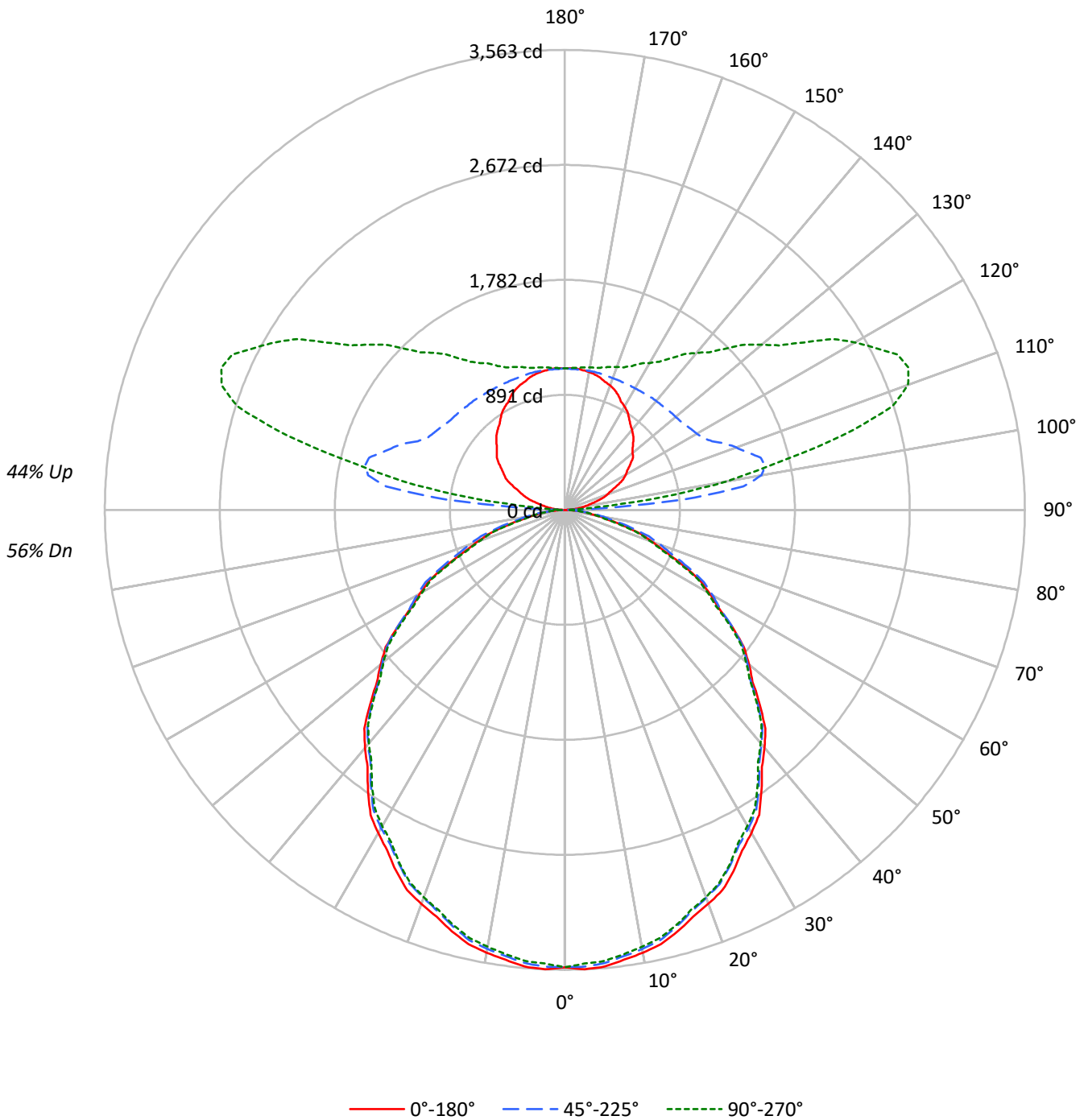
Input Watts (W): 162.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	109	109	109	109	101	101	101	101	87	87	87	73	73	73	61	61	61	56
1	99	95	91	88	92	88	85	82	76	74	71	65	63	61	55	53	52	47
2	90	83	77	72	84	77	72	67	67	63	59	57	54	51	48	46	44	40
3	83	73	66	60	76	68	62	56	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	60	53	48	52	47	43	45	41	37	38	35	32	29
5	69	58	49	43	64	54	47	41	47	41	37	40	36	32	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	28	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	29	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	24	21	18	16
10	48	36	28	24	44	34	27	22	30	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10896	10896	10896
5°	10966	10879	10831
10°	10878	10791	10732
15°	10763	10644	10604
20°	10635	10471	10451
25°	10486	10295	10263
30°	10264	10109	10043
35°	9973	9832	9774
40°	9662	9512	9474
45°	9286	9164	9123
50°	8901	8826	8767
55°	8486	8486	8352
60°	7968	8122	7833
65°	7292	7655	7110
70°	6427	7045	6259
75°	5490	6305	5341
80°	4256	5308	4313
85°	2752	4076	3634



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.6	2.1
10°-20°	941.9	5.8
20°-30°	1397.1	8.6
30°-40°	1634.8	10.1
40°-50°	1627.5	10.1
50°-60°	1405.4	8.7
60°-70°	1011.6	6.3
70°-80°	530.5	3.3
80°-90°	134.3	0.8
90°-100°	517.4	3.2
100°-110°	1423.6	8.8
110°-120°	1469.4	9.1
120°-130°	1177.3	7.3
130°-140°	924.7	5.7
140°-150°	708.6	4.4
150°-160°	509.5	3.2
160°-170°	311.5	1.9
170°-180°	105.0	0.6
0°-30°	2672.6	16.5
0°-40°	4307.3	26.6
0°-60°	7340.2	45.4
0°-90°	9016.6	55.8
90°-120°	3410.4	21.1
90°-150°	6220.9	38.5
90°-180°	7147.0	44.2
0°-180°	16163.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3543	3543	3543	3543	3543	
5°	3552	3512	3524	3515	3508	336
15°	3380	3338	3343	3337	3330	953
25°	3090	3038	3034	3016	3025	1421
35°	2656	2620	2619	2594	2603	1661
45°	2135	2117	2107	2101	2098	1647
55°	1583	1580	1583	1561	1558	1412
65°	1002	1032	1052	1011	977	993
75°	462	505	531	495	450	495
85°	78	102	116	109	103	103
90°	2	9	16	21	21	8
95°	77	282	915	391	250	81
105°	254	391	1569	2389	2229	268
115°	450	549	1258	2505	2843	445
125°	621	708	1141	1931	2262	554
135°	749	831	1109	1562	1767	578
145°	866	925	1092	1330	1433	543
155°	980	1012	1085	1196	1230	450
165°	1060	1073	1090	1135	1141	299
175°	1097	1099	1092	1106	1104	104
180°	1097	1097	1097	1097	1097	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3542.8	3542.8	3542.8	3542.8	3542.8
2.5°	3562.8	3533.5	3542.8	3534.9	3517.8
5°	3552.2	3512.5	3524.1	3514.6	3508.5
7.5°	3516.0	3479.3	3487.9	3477.8	3474.1
10°	3483.5	3446.9	3455.4	3442.8	3436.7
12.5°	3446.0	3407.0	3415.5	3402.9	3399.2
15°	3380.5	3337.8	3343.0	3336.7	3330.5
17.5°	3304.3	3261.0	3261.9	3251.9	3250.6
20°	3249.4	3203.6	3199.4	3187.1	3193.2
22.5°	3189.5	3141.2	3137.0	3119.7	3128.3
25°	3090.2	3038.3	3034.0	3015.5	3024.6
27.5°	2975.3	2924.1	2924.1	2898.1	2907.9
30°	2890.4	2841.6	2846.7	2815.8	2828.0
32.5°	2800.5	2756.6	2759.3	2728.4	2740.6
35°	2656.3	2619.7	2618.9	2594.1	2603.3
37.5°	2509.0	2476.6	2471.5	2457.2	2459.7
40°	2406.6	2379.1	2369.2	2359.8	2359.8
42.5°	2299.2	2274.2	2264.3	2257.4	2254.9
45°	2135.0	2116.7	2107.0	2100.6	2097.6
47.5°	1972.7	1955.6	1947.1	1942.7	1939.6
50°	1860.4	1848.2	1844.8	1835.3	1832.3
52.5°	1748.0	1740.7	1737.4	1725.4	1722.4
55°	1582.6	1579.5	1582.6	1560.6	1557.6
57.5°	1410.3	1415.1	1425.2	1395.7	1388.4
60°	1295.4	1307.6	1320.4	1285.7	1273.5
62.5°	1178.0	1197.6	1215.5	1175.8	1158.7
65°	1002.0	1032.5	1051.9	1010.6	977.0
67.5°	832.2	870.0	893.3	848.8	810.9
70°	714.8	757.5	783.5	738.8	696.1
72.5°	612.4	660.0	681.1	638.9	596.2
75°	462.0	504.7	530.6	495.3	449.5
77.5°	327.7	368.0	389.6	358.7	320.9
80°	240.3	283.1	299.7	274.0	243.5
82.5°	170.4	205.8	217.3	201.8	181.0
85°	78.0	102.5	115.5	109.1	103.0
87.5°	20.4	38.9	50.7	51.7	54.1
90°	2.3	9.2	16.3	21.0	21.0
92.5°	32.2	137.7	238.6	91.6	75.2
95°	77.0	282.4	915.0	391.3	249.8
97.5°	125.6	313.2	1396.3	1075.9	759.1
100°	161.1	332.2	1547.6	1562.0	1274.5
102.5°	194.7	354.9	1586.8	1937.9	1674.1
105°	254.4	391.4	1568.6	2388.9	2229.1
107.5°	311.4	436.5	1479.4	2609.8	2657.2
110°	352.5	466.6	1412.2	2664.7	2829.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	389.8	500.3	1345.0	2629.3	2879.5
115°	450.5	548.6	1258.1	2505.3	2843.0
117.5°	508.4	598.8	1203.0	2331.2	2713.3
120°	543.9	630.6	1178.8	2200.8	2595.6
122.5°	575.6	662.3	1162.0	2086.4	2461.2
125°	620.9	707.6	1141.4	1930.9	2261.8
127.5°	663.8	746.5	1127.9	1801.1	2091.4
130°	686.3	770.7	1120.4	1724.0	1988.7
132.5°	712.4	796.8	1114.8	1656.2	1895.4
135°	749.3	831.4	1108.7	1561.6	1767.0
137.5°	783.8	860.0	1103.6	1485.1	1654.5
140°	810.0	880.7	1101.7	1434.3	1587.2
142.5°	832.4	897.6	1098.0	1389.0	1520.0
145°	866.0	925.3	1092.4	1330.5	1433.2
147.5°	901.9	953.1	1089.6	1278.7	1360.8
150°	924.3	970.0	1087.7	1250.2	1314.1
152.5°	944.9	986.9	1085.9	1225.7	1278.7
155°	980.4	1012.3	1085.4	1195.9	1230.1
157.5°	1006.0	1032.1	1085.4	1171.4	1195.1
160°	1024.7	1045.2	1085.4	1158.2	1176.4
162.5°	1039.6	1056.5	1087.3	1146.9	1161.5
165°	1059.7	1073.4	1090.1	1134.6	1141.4
167.5°	1073.7	1084.2	1092.4	1124.2	1126.0
170°	1083.1	1089.9	1092.4	1120.4	1120.4
172.5°	1090.5	1093.7	1092.4	1114.8	1112.9
175°	1097.1	1099.3	1092.4	1106.4	1104.1
177.5°	1098.9	1098.9	1091.5	1102.6	1098.9
180°	1097.1	1097.1	1097.1	1097.1	1097.1

(END OF REPORT)