

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: P563453

Luminaire Tested: **SQ4-PP3-075U-125D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563453
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-125D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 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: 18779.7 lumens
Efficiency: N/A
Efficacy: 96.4 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: Semi-Direct

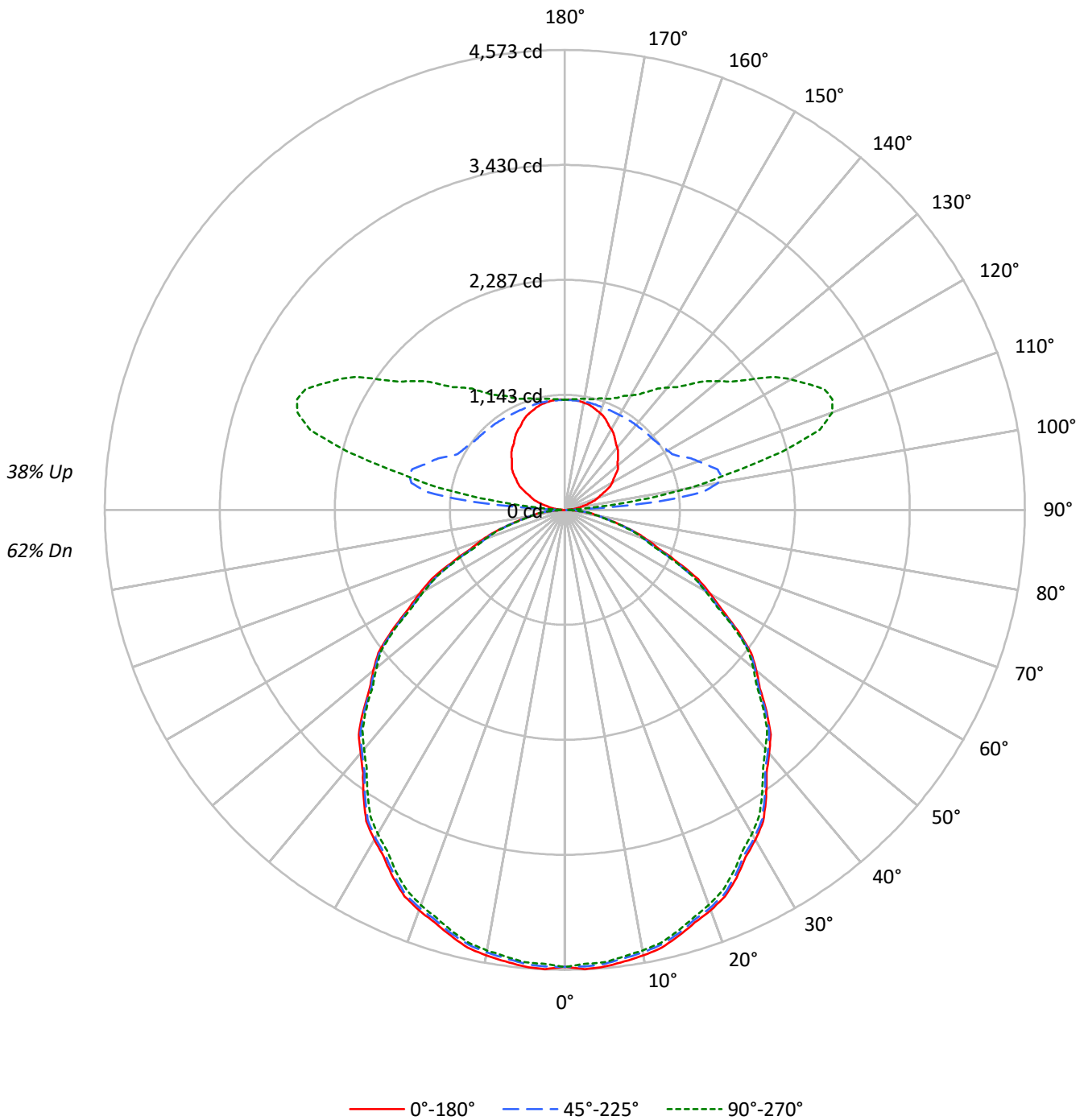
Input Watts (W): 194.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	93	89	94	90	87	84	79	77	75	69	67	66	60	58	57	53
2	92	84	78	73	86	79	74	69	70	66	62	61	58	55	53	51	49	45
3	84	74	67	61	78	70	63	58	62	57	52	54	50	47	47	44	42	38
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	39	36	33
5	71	59	51	45	66	56	48	43	49	43	39	43	39	35	38	34	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	31	34	31	28	25
7	60	48	40	34	56	45	38	33	40	34	30	36	31	27	31	28	25	22
8	56	44	36	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18
10	49	37	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13974	13974	13974
5°	14077	13991	13942
10°	14053	13953	13891
15°	13960	13884	13808
20°	13868	13790	13685
25°	13703	13608	13473
30°	13449	13378	13209
35°	13097	13008	12843
40°	12678	12598	12455
45°	12332	12246	12124
50°	11889	11813	11699
55°	11274	11125	11039
60°	10263	9969	9921
65°	9042	8665	8636
70°	7807	7484	7484
75°	6720	6624	6531
80°	5924	5995	5853
85°	4637	5060	5060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.7	2.3
10°-20°	1226.9	6.5
20°-30°	1837.7	9.8
30°-40°	2155.5	11.5
40°-50°	2162.2	11.5
50°-60°	1844.5	9.8
60°-70°	1202.9	6.4
70°-80°	603.5	3.2
80°-90°	169.8	0.9
90°-100°	517.4	2.8
100°-110°	1423.6	7.6
110°-120°	1469.4	7.8
120°-130°	1177.3	6.3
130°-140°	924.7	4.9
140°-150°	708.6	3.8
150°-160°	509.5	2.7
160°-170°	311.5	1.7
170°-180°	105.0	0.6
0°-30°	3494.2	18.6
0°-40°	5649.7	30.1
0°-60°	9656.4	51.4
0°-90°	11632.7	61.9
90°-120°	3410.4	18.2
90°-150°	6220.9	33.1
90°-180°	7147.0	38.1
0°-180°	18779.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4544	4544	4544	4544	4544	
5°	4560	4517	4532	4516	4516	433
15°	4385	4342	4361	4345	4337	1237
25°	4038	3991	4010	3974	3970	1857
35°	3489	3454	3465	3425	3421	2179
45°	2836	2816	2816	2788	2788	2183
55°	2103	2095	2075	2063	2059	1869
65°	1242	1219	1191	1183	1187	1240
75°	566	566	558	554	550	613
85°	131	143	143	143	143	154
90°	2	9	16	21	21	10
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°	4543.9	4543.9	4543.9	4543.9	4543.9
2.5°	4572.6	4535.2	4543.9	4537.1	4518.4
5°	4559.8	4517.0	4532.0	4516.0	4516.0
7.5°	4528.8	4482.1	4496.9	4481.0	4480.2
10°	4500.1	4453.4	4468.2	4452.2	4448.3
12.5°	4458.7	4412.0	4430.0	4410.9	4410.1
15°	4384.6	4341.8	4360.7	4344.6	4336.8
17.5°	4301.0	4254.3	4277.1	4254.7	4251.6
20°	4237.3	4190.5	4213.4	4181.5	4181.5
22.5°	4160.8	4114.1	4140.1	4098.7	4098.7
25°	4038.1	3991.4	4010.3	3974.3	3970.4
27.5°	3892.4	3846.4	3866.1	3825.5	3824.7
30°	3787.3	3744.4	3767.3	3723.5	3719.6
32.5°	3672.6	3632.8	3649.5	3605.6	3601.7
35°	3488.6	3453.5	3464.7	3424.8	3420.9
37.5°	3295.0	3259.2	3271.9	3237.7	3236.1
40°	3158.0	3134.7	3138.1	3110.1	3102.3
42.5°	3030.6	3004.1	3007.5	2979.6	2978.0
45°	2835.5	2816.0	2815.6	2787.7	2787.7
47.5°	2628.4	2613.6	2609.3	2586.1	2585.4
50°	2485.0	2473.3	2469.1	2449.1	2445.2
52.5°	2335.3	2329.8	2316.2	2299.4	2298.6
55°	2102.7	2094.9	2074.8	2062.8	2058.9
57.5°	1850.2	1834.6	1812.0	1794.5	1797.7
60°	1668.6	1653.0	1620.8	1612.9	1612.9
62.5°	1493.4	1474.7	1442.4	1431.4	1437.6
65°	1242.5	1219.1	1190.7	1182.9	1186.8
67.5°	1014.7	993.7	962.9	962.9	959.8
70°	868.2	856.5	832.3	832.3	832.3
72.5°	737.5	732.1	714.4	714.4	711.3
75°	565.5	565.5	557.5	553.5	549.6
77.5°	423.7	425.3	421.3	417.2	410.2
80°	334.5	342.3	338.5	334.4	330.5
82.5°	251.7	259.5	258.9	251.7	250.9
85°	131.4	143.1	143.4	143.4	143.4
87.5°	35.5	49.3	54.2	55.2	58.4
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)