

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: P563813

Luminaire Tested: **SQ4-PP3-150U-100D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563813
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PP3-150U-100D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

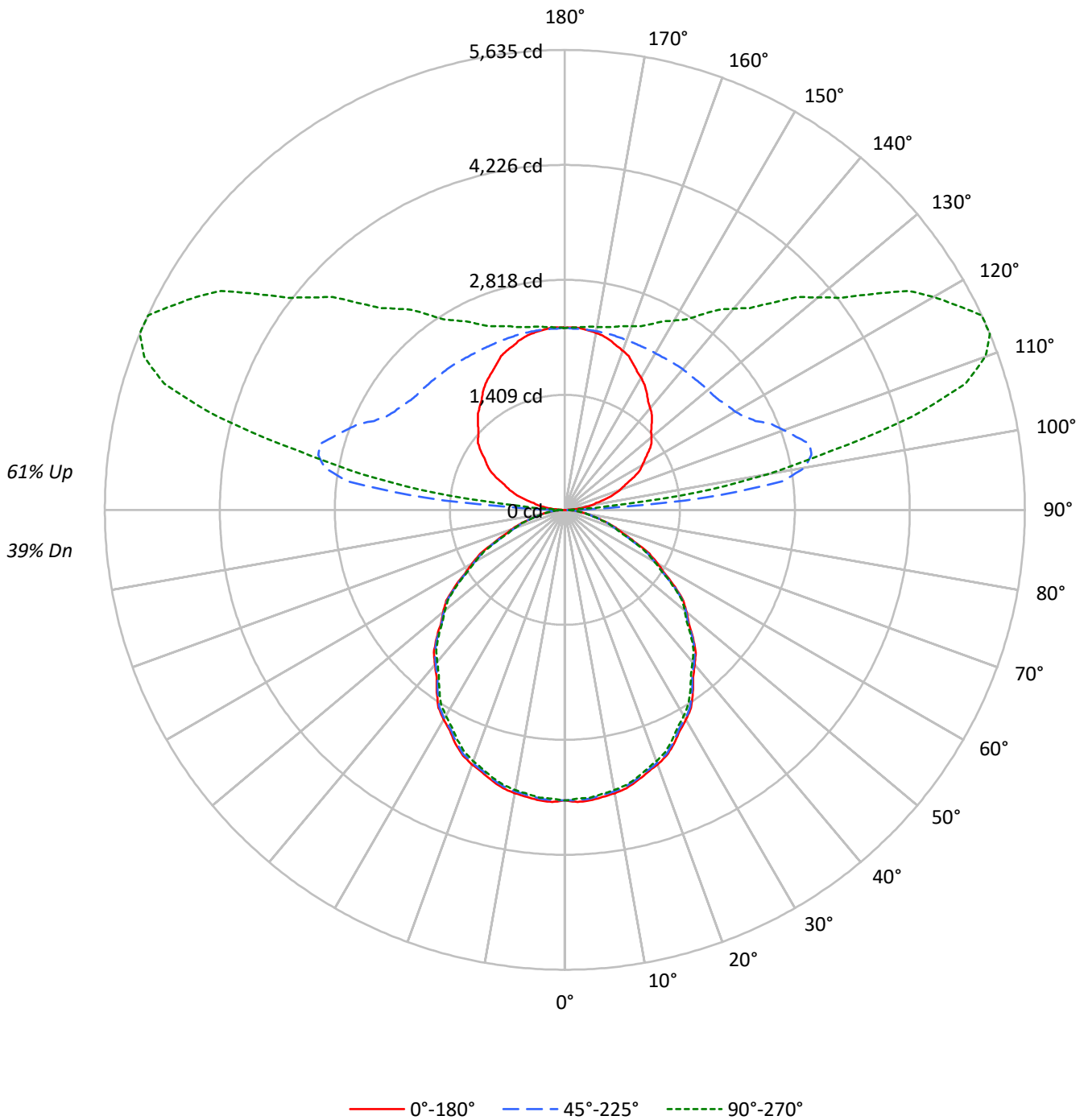
Lumens per Lamp: N/A
Luminaire Lumens: 23498.8 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 223.7
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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	63	60	56	53	47	45	43	36	34	33	28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	73	62	54	49	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	67	55	47	42	60	51	44	39	42	37	33	33	30	27	26	23	21	18
6	61	50	42	36	56	45	38	33	38	32	28	30	26	24	23	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	27	24	21	21	19	17	14
8	52	40	33	28	48	37	30	26	31	26	22	25	21	18	20	17	15	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	17	18	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10951	10951	10951
5°	11031	10963	10925
10°	11012	10934	10886
15°	10940	10880	10820
20°	10867	10806	10724
25°	10738	10664	10558
30°	10539	10484	10351
35°	10263	10193	10064
40°	9935	9872	9760
45°	9664	9596	9501
50°	9317	9257	9168
55°	8835	8718	8651
60°	8043	7812	7774
65°	7085	6790	6768
70°	6117	5864	5864
75°	5265	5191	5118
80°	4642	4699	4587
85°	3634	3963	3963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.7	1.4
10°-20°	961.4	4.1
20°-30°	1440.0	6.1
30°-40°	1689.1	7.2
40°-50°	1694.3	7.2
50°-60°	1445.4	6.2
60°-70°	942.7	4.0
70°-80°	472.9	2.0
80°-90°	135.5	0.6
90°-100°	1036.6	4.4
100°-110°	2802.7	11.9
110°-120°	2946.7	12.5
120°-130°	2393.5	10.2
130°-140°	1877.5	8.0
140°-150°	1441.0	6.1
150°-160°	1036.3	4.4
160°-170°	633.1	2.7
170°-180°	213.4	0.9
0°-30°	2738.1	11.7
0°-40°	4427.2	18.8
0°-60°	7566.9	32.2
0°-90°	9118.0	38.8
90°-120°	6786.0	28.9
90°-150°	12497.9	53.2
90°-180°	14381.0	61.2
0°-180°	23498.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3561	3561	3561	3561	3561	
5°	3573	3540	3551	3539	3539	339
15°	3436	3402	3417	3404	3398	969
25°	3164	3128	3142	3114	3111	1455
35°	2734	2706	2715	2684	2681	1708
45°	2222	2207	2206	2184	2184	1711
55°	1648	1642	1626	1616	1613	1464
65°	974	955	933	927	930	972
75°	443	443	437	434	431	481
85°	103	112	112	112	112	121
90°	5	14	31	34	31	15
95°	161	565	1724	892	531	168
105°	521	805	3109	4586	4398	549
115°	917	1121	2579	4992	5635	906
125°	1256	1439	2324	3922	4607	1119
135°	1505	1684	2262	3167	3585	1163
145°	1750	1882	2230	2711	2917	1095
155°	1976	2054	2211	2432	2511	911
165°	2151	2172	2221	2308	2319	606
175°	2233	2230	2223	2252	2247	212
180°	2230	2230	2230	2230	2230	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3560.7	3560.7	3560.7	3560.7	3560.7
2.5°	3583.2	3553.9	3560.7	3555.4	3540.7
5°	3573.2	3539.6	3551.3	3538.8	3538.8
7.5°	3548.8	3512.2	3523.9	3511.4	3510.8
10°	3526.4	3489.7	3501.4	3488.8	3485.8
12.5°	3493.9	3457.3	3471.4	3456.4	3455.8
15°	3435.9	3402.3	3417.1	3404.5	3398.4
17.5°	3370.3	3333.7	3351.6	3334.1	3331.6
20°	3320.4	3283.8	3301.7	3276.7	3276.7
22.5°	3260.5	3223.9	3244.3	3211.8	3211.8
25°	3164.4	3127.7	3142.5	3114.4	3111.3
27.5°	3050.1	3014.1	3029.5	2997.7	2997.1
30°	2967.8	2934.2	2952.2	2917.8	2914.7
32.5°	2877.9	2846.8	2859.8	2825.4	2822.3
35°	2733.7	2706.2	2715.0	2683.7	2680.7
37.5°	2582.0	2554.0	2563.9	2537.1	2535.9
40°	2474.7	2456.4	2459.1	2437.1	2431.0
42.5°	2374.8	2354.1	2356.7	2334.9	2333.6
45°	2221.9	2206.7	2206.3	2184.5	2184.5
47.5°	2059.6	2048.0	2044.7	2026.6	2025.9
50°	1947.3	1938.1	1934.8	1919.1	1916.1
52.5°	1830.0	1825.7	1815.0	1801.9	1801.3
55°	1647.7	1641.6	1625.9	1616.4	1613.4
57.5°	1449.9	1437.7	1419.9	1406.2	1408.7
60°	1307.6	1295.4	1270.1	1263.9	1263.9
62.5°	1170.3	1155.6	1130.3	1121.7	1126.6
65°	973.6	955.3	933.1	926.9	930.0
67.5°	795.1	778.7	754.6	754.5	752.1
70°	680.3	671.2	652.2	652.2	652.2
72.5°	577.9	573.7	559.8	559.8	557.4
75°	443.1	443.1	436.9	433.7	430.7
77.5°	332.0	333.3	330.2	326.9	321.4
80°	262.1	268.2	265.3	262.1	259.0
82.5°	197.2	203.3	202.8	197.2	196.6
85°	103.0	112.1	112.3	112.3	112.3
87.5°	28.4	40.1	46.2	46.7	48.7
90°	4.8	14.2	31.2	33.6	31.2
92.5°	68.2	248.5	490.3	212.8	154.1
95°	160.9	564.7	1723.9	892.1	530.6
97.5°	258.3	647.6	2687.1	2223.8	1633.1
100°	331.3	681.1	2986.8	3114.9	2518.6
102.5°	398.6	727.7	3092.4	3790.6	3344.5
105°	521.0	805.1	3109.2	4586.4	4398.5
107.5°	634.3	893.5	2973.3	5082.8	5145.2
110°	722.7	957.4	2852.3	5216.1	5481.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	801.4	1021.2	2740.9	5189.5	5635.0
115°	917.2	1121.4	2578.6	4991.8	5635.0
117.5°	1030.5	1222.1	2471.5	4689.8	5419.0
120°	1099.6	1287.4	2408.2	4473.1	5217.3
122.5°	1164.9	1349.0	2369.7	4240.8	4990.6
125°	1255.7	1438.8	2324.1	3921.9	4607.4
127.5°	1339.3	1519.1	2297.2	3661.7	4264.6
130°	1385.4	1570.8	2285.7	3501.0	4045.6
132.5°	1433.4	1617.0	2274.2	3355.9	3857.4
135°	1505.4	1683.8	2261.7	3166.8	3584.6
137.5°	1577.9	1746.5	2251.1	3013.2	3353.7
140°	1627.8	1785.1	2247.3	2914.4	3217.3
142.5°	1675.9	1823.8	2239.6	2825.2	3090.5
145°	1750.3	1881.8	2230.5	2710.6	2917.2
147.5°	1818.0	1934.4	2219.9	2606.7	2765.4
150°	1867.9	1971.2	2216.1	2550.3	2677.1
152.5°	1914.0	2004.2	2214.2	2497.9	2602.2
155°	1976.0	2053.5	2211.3	2431.6	2511.4
157.5°	2040.3	2094.3	2211.8	2385.3	2437.9
160°	2076.8	2121.4	2213.7	2356.2	2393.8
162.5°	2105.6	2142.7	2215.6	2332.9	2361.1
165°	2151.3	2172.4	2220.9	2307.6	2319.3
167.5°	2182.5	2197.0	2221.4	2285.8	2291.5
170°	2201.7	2208.7	2223.3	2276.1	2276.1
172.5°	2217.0	2218.4	2223.3	2264.5	2262.7
175°	2232.9	2230.5	2223.3	2252.0	2247.3
177.5°	2238.2	2232.5	2222.8	2241.9	2236.2
180°	2230.5	2230.5	2230.5	2230.5	2230.5

(END OF REPORT)