

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: P565121

Luminaire Tested: **SQ4-PW1-150U-075D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565121  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PW1-150U-075D-830-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25110.2 lumens  
Efficiency: N/A  
Efficacy: 128.8 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: Semi-Indirect

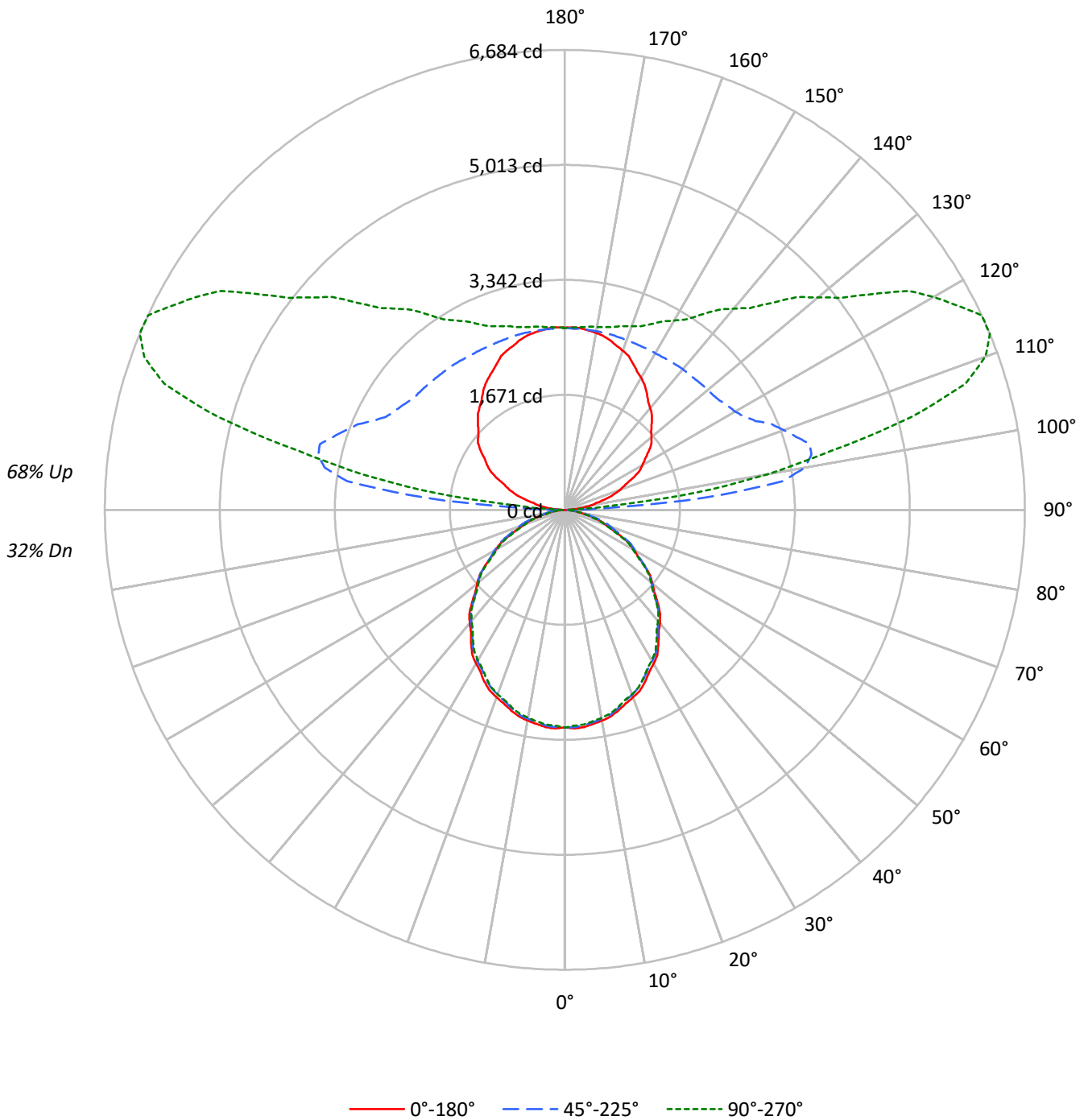
Input Watts (W): 194.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	64	62	60	49	48	46	35	34	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	28	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	22	21	17
5	65	54	46	40	59	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13
7	55	44	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9727	9727	9727
5°	9790	9712	9669
10°	9711	9633	9581
15°	9608	9502	9466
20°	9494	9348	9329
25°	9361	9191	9163
30°	9163	9025	8965
35°	8903	8777	8725
40°	8625	8491	8457
45°	8290	8181	8144
50°	7946	7879	7826
55°	7575	7575	7456
60°	7113	7250	6993
65°	6509	6834	6347
70°	5738	6289	5588
75°	4900	5629	4768
80°	3801	4738	3850
85°	2459	3638	3246



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	297.8	1.2
10°-20°	840.8	3.3
20°-30°	1247.2	5.0
30°-40°	1459.4	5.8
40°-50°	1452.9	5.8
50°-60°	1254.6	5.0
60°-70°	903.1	3.6
70°-80°	473.6	1.9
80°-90°	122.9	0.5
90°-100°	1229.6	4.9
100°-110°	3324.5	13.2
110°-120°	3495.2	13.9
120°-130°	2839.1	11.3
130°-140°	2227.0	8.9
140°-150°	1709.2	6.8
150°-160°	1229.3	4.9
160°-170°	750.9	3.0
170°-180°	253.2	1.0
0°-30°	2385.9	9.5
0°-40°	3845.2	15.3
0°-60°	6552.7	26.1
0°-90°	8052.3	32.1
90°-120°	8049.2	32.1
90°-150°	14824.5	59.0
90°-180°	17058.0	67.9
0°-180°	25110.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3163	3163	3163	3163	3163	
5°	3171	3136	3146	3138	3132	300
15°	3018	2980	2984	2979	2973	851
25°	2759	2712	2708	2692	2700	1269
35°	2371	2339	2338	2316	2324	1482
45°	1906	1890	1881	1875	1873	1471
55°	1413	1410	1413	1393	1390	1261
65°	894	922	939	902	872	886
75°	412	451	474	442	401	442
85°	70	92	103	97	92	92
90°	6	17	37	40	37	15
95°	191	670	2045	1058	629	200
105°	618	955	3688	5440	5217	651
115°	1088	1330	3059	5921	6684	1074
125°	1490	1707	2757	4652	5465	1328
135°	1786	1997	2683	3756	4252	1380
145°	2076	2232	2646	3215	3460	1299
155°	2344	2436	2623	2884	2979	1081
165°	2552	2577	2634	2737	2751	719
175°	2649	2646	2637	2671	2666	251
180°	2646	2646	2646	2646	2646	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3162.7	3162.7	3162.7	3162.7	3162.7
2.5°	3180.6	3154.4	3162.7	3155.7	3140.4
5°	3171.1	3135.7	3146.0	3137.5	3132.1
7.5°	3138.8	3106.1	3113.7	3104.7	3101.4
10°	3109.8	3077.1	3084.7	3073.4	3068.0
12.5°	3076.3	3041.5	3049.0	3037.8	3034.6
15°	3017.8	2979.7	2984.4	2978.7	2973.2
17.5°	2949.8	2911.1	2911.9	2903.0	2901.9
20°	2900.8	2859.9	2856.2	2845.2	2850.6
22.5°	2847.3	2804.2	2800.5	2785.0	2792.7
25°	2758.7	2712.4	2708.5	2692.0	2700.2
27.5°	2656.1	2610.4	2610.4	2587.2	2595.9
30°	2580.3	2536.7	2541.3	2513.7	2524.6
32.5°	2500.1	2460.9	2463.3	2435.7	2446.6
35°	2371.4	2338.7	2337.9	2315.8	2324.0
37.5°	2239.8	2210.9	2206.4	2193.6	2195.8
40°	2148.4	2123.9	2115.0	2106.6	2106.6
42.5°	2052.6	2030.2	2021.4	2015.2	2013.0
45°	1906.0	1889.7	1880.9	1875.3	1872.6
47.5°	1761.1	1745.8	1738.2	1734.3	1731.6
50°	1660.8	1649.9	1646.8	1638.4	1635.7
52.5°	1560.5	1553.9	1551.0	1540.3	1537.6
55°	1412.8	1410.1	1412.8	1393.2	1390.5
57.5°	1259.0	1263.3	1272.3	1246.0	1239.5
60°	1156.4	1167.3	1178.7	1147.8	1136.9
62.5°	1051.6	1069.1	1085.1	1049.6	1034.4
65°	894.5	921.7	939.1	902.2	872.2
67.5°	742.9	776.7	797.5	757.7	723.9
70°	638.1	676.3	699.4	659.5	621.4
72.5°	546.7	589.2	608.0	570.4	532.2
75°	412.4	450.6	473.7	442.1	401.3
77.5°	292.6	328.6	347.8	320.2	286.5
80°	214.6	252.7	267.5	244.6	217.4
82.5°	152.1	183.8	193.9	180.1	161.6
85°	69.7	91.5	103.1	97.4	92.0
87.5°	19.0	36.5	49.8	50.4	52.0
90°	5.7	16.8	37.0	39.8	37.0
92.5°	80.9	294.7	581.5	252.5	182.8
95°	190.8	669.8	2044.8	1058.2	629.4
97.5°	306.4	768.1	3187.4	2637.8	1937.2
100°	393.0	807.9	3542.8	3694.8	2987.5
102.5°	472.8	863.2	3668.1	4496.2	3967.1
105°	618.0	954.9	3688.0	5440.1	5217.4
107.5°	752.4	1059.8	3526.9	6029.0	6103.1
110°	857.2	1135.7	3383.3	6187.1	6501.8

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	950.6	1211.3	3251.2	6155.5	6684.1
115°	1087.9	1330.2	3058.7	5921.1	6684.1
117.5°	1222.3	1449.6	2931.6	5562.8	6427.7
120°	1304.3	1527.1	2856.5	5305.8	6188.5
122.5°	1381.8	1600.1	2810.9	5030.3	5919.7
125°	1489.5	1706.7	2756.8	4652.0	5465.1
127.5°	1588.6	1801.9	2724.9	4343.4	5058.5
130°	1643.2	1863.2	2711.2	4152.7	4798.7
132.5°	1700.2	1918.0	2697.5	3980.7	4575.5
135°	1785.6	1997.3	2682.7	3756.3	4251.9
137.5°	1871.6	2071.6	2670.2	3574.2	3978.0
140°	1930.9	2117.5	2665.6	3457.0	3816.2
142.5°	1987.8	2163.3	2656.5	3351.2	3665.8
145°	2076.1	2232.1	2645.7	3215.2	3460.2
147.5°	2156.4	2294.6	2633.2	3092.0	3280.2
150°	2215.7	2338.2	2628.6	3025.1	3175.4
152.5°	2270.4	2377.3	2626.3	2962.9	3086.6
155°	2343.8	2435.7	2622.9	2884.2	2978.9
157.5°	2420.2	2484.2	2623.5	2829.4	2891.8
160°	2463.4	2516.4	2625.8	2794.8	2839.4
162.5°	2497.6	2541.6	2628.1	2767.2	2800.6
165°	2551.7	2576.8	2634.3	2737.2	2751.1
167.5°	2588.8	2606.0	2634.9	2711.4	2718.0
170°	2611.5	2619.9	2637.2	2699.8	2699.8
172.5°	2629.8	2631.4	2637.2	2686.1	2683.9
175°	2648.6	2645.8	2637.2	2671.2	2665.6
177.5°	2654.8	2648.1	2636.6	2659.2	2652.5
180°	2645.7	2645.7	2645.7	2645.7	2645.7

(END OF REPORT)