

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: P563777

Luminaire Tested: **SQ4-PP3-150U-075D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563777  
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-075D-830-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM 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: 25199.1 lumens  
Efficiency: N/A  
Efficacy: 129.3 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

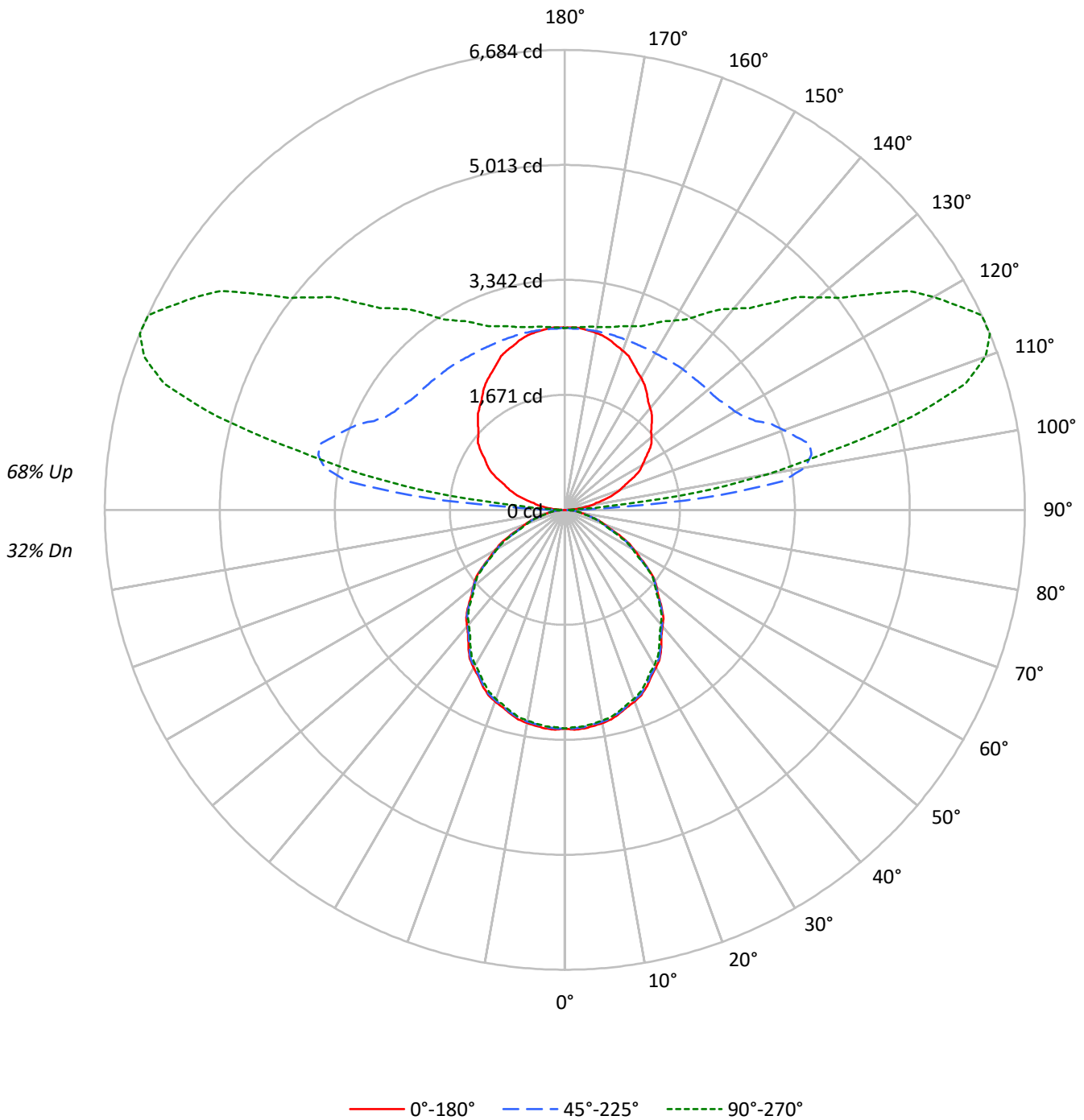
Input Watts (W): 194.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	74	74	74	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	65	62	60	49	48	47	35	35	34	27
2	86	79	73	68	77	71	66	62	57	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	52	50	46	42	38	36	33	28	26	25	20
4	71	61	53	48	64	55	49	44	44	40	36	34	31	28	25	23	21	17
5	65	54	46	41	59	49	42	37	40	35	31	31	27	25	22	20	18	15
6	60	49	41	35	54	44	37	32	36	31	27	28	24	21	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	14	12
8	51	40	32	27	46	36	29	25	29	24	21	23	19	17	17	15	13	10
9	48	36	29	24	43	33	26	22	27	22	19	21	18	15	16	13	12	9
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	14	12	10	8

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

	0°	45°	90°
0°	9776	9776	9776
5°	9847	9787	9753
10°	9831	9761	9718
15°	9766	9712	9659
20°	9701	9646	9574
25°	9586	9520	9425
30°	9408	9359	9240
35°	9162	9099	8985
40°	8869	8813	8713
45°	8627	8566	8482
50°	8317	8264	8184
55°	7887	7782	7723
60°	7180	6974	6940
65°	6325	6062	6041
70°	5461	5236	5236
75°	4701	4634	4569
80°	4144	4194	4095
85°	3243	3539	3539



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.6	1.2
10°-20°	858.2	3.4
20°-30°	1285.5	5.1
30°-40°	1507.9	6.0
40°-50°	1512.6	6.0
50°-60°	1290.3	5.1
60°-70°	841.5	3.3
70°-80°	422.2	1.7
80°-90°	122.4	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	8.8
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°	2444.4	9.7
0°-40°	3952.2	15.7
0°-60°	6755.1	26.8
0°-90°	8141.2	32.3
90°-120°	8049.2	31.9
90°-150°	14824.5	58.8
90°-180°	17058.0	67.7
0°-180°	25199.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3179	3179	3179	3179	3179	
5°	3190	3160	3170	3159	3159	303
15°	3067	3037	3050	3039	3034	865
25°	2825	2792	2805	2780	2778	1299
35°	2440	2416	2424	2396	2393	1524
45°	1984	1970	1970	1950	1950	1527
55°	1471	1466	1451	1443	1440	1307
65°	869	853	833	828	830	867
75°	396	396	390	387	384	429
85°	92	100	100	100	100	108
90°	6	17	37	40	37	16
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°	3178.7	3178.7	3178.7	3178.7	3178.7
2.5°	3198.8	3172.6	3178.7	3173.9	3160.9
5°	3189.8	3159.9	3170.3	3159.2	3159.2
7.5°	3168.1	3135.4	3145.8	3134.7	3134.1
10°	3148.1	3115.4	3125.8	3114.6	3111.8
12.5°	3119.1	3086.4	3099.0	3085.6	3085.1
15°	3067.3	3037.3	3050.5	3039.3	3033.8
17.5°	3008.8	2976.1	2992.0	2976.4	2974.2
20°	2964.2	2931.5	2947.5	2925.2	2925.2
22.5°	2910.7	2878.0	2896.2	2867.2	2867.2
25°	2824.9	2792.2	2805.4	2780.3	2777.5
27.5°	2722.9	2690.8	2704.5	2676.1	2675.6
30°	2649.4	2619.4	2635.4	2604.7	2602.0
32.5°	2569.1	2541.4	2553.0	2522.3	2519.6
35°	2440.4	2415.9	2423.7	2395.8	2393.1
37.5°	2305.0	2280.0	2288.9	2264.9	2263.8
40°	2209.2	2192.9	2195.3	2175.7	2170.2
42.5°	2120.1	2101.5	2103.9	2084.4	2083.3
45°	1983.6	1969.9	1969.6	1950.1	1950.1
47.5°	1838.7	1828.3	1825.3	1809.1	1808.6
50°	1738.4	1730.2	1727.2	1713.3	1710.5
52.5°	1633.6	1629.8	1620.3	1608.6	1608.0
55°	1470.9	1465.5	1451.4	1443.0	1440.3
57.5°	1294.3	1283.4	1267.6	1255.4	1257.5
60°	1167.3	1156.4	1133.9	1128.3	1128.3
62.5°	1044.7	1031.6	1009.0	1001.3	1005.7
65°	869.2	852.9	833.0	827.5	830.2
67.5°	709.8	695.1	673.6	673.6	671.4
70°	607.3	599.2	582.3	582.3	582.3
72.5°	515.9	512.1	499.8	499.7	497.6
75°	395.6	395.6	390.0	387.2	384.5
77.5°	296.4	297.5	294.7	291.8	286.9
80°	234.0	239.5	236.8	234.0	231.2
82.5°	176.1	181.5	181.1	176.1	175.5
85°	91.9	100.1	100.3	100.3	100.3
87.5°	25.7	36.6	43.1	43.7	45.3
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)