

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: P564449

Luminaire Tested: **SQ4-PR1-150U-075D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564449
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-150U-075D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

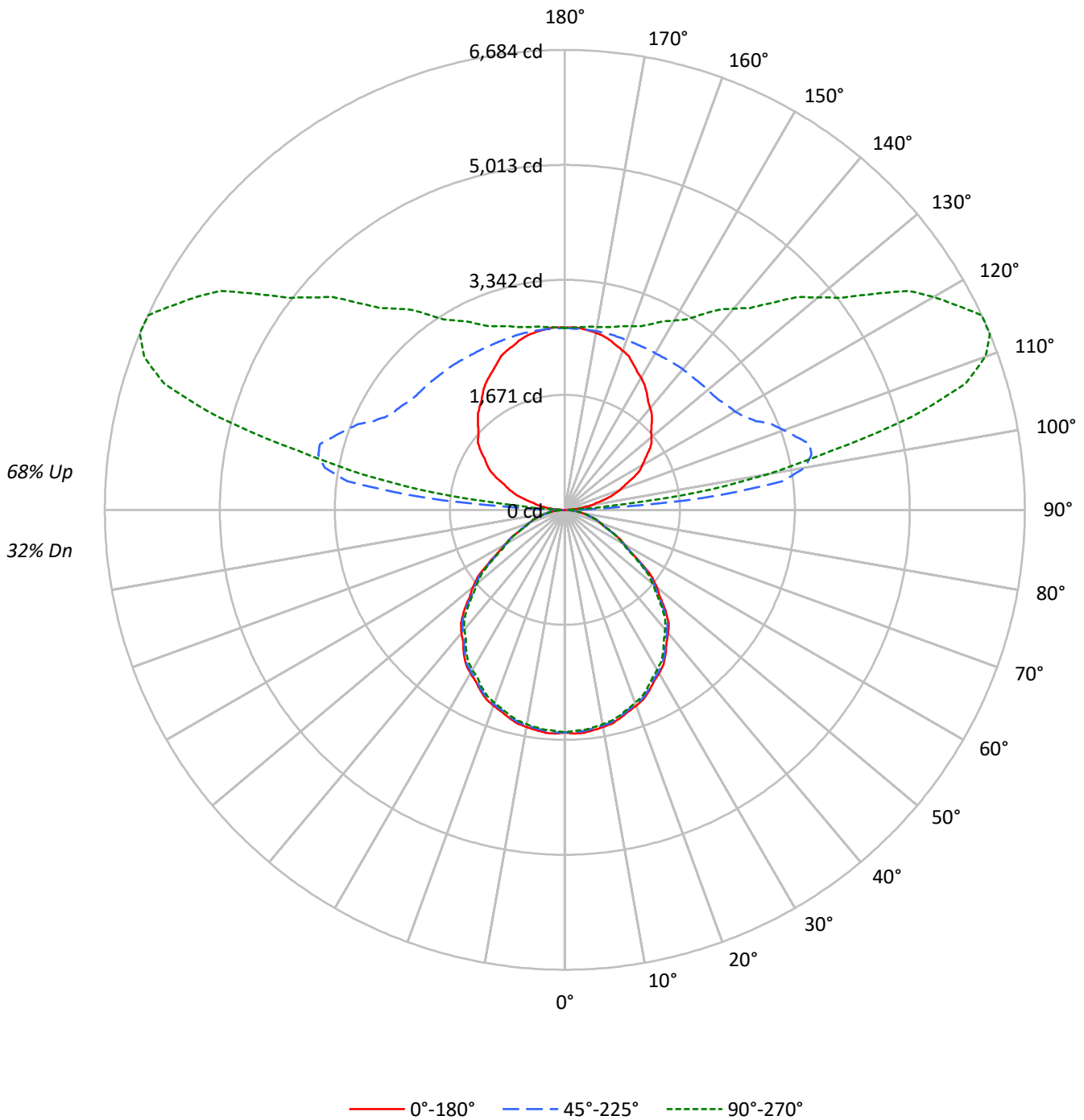
Lumens per Lamp: N/A
Luminaire Lumens: 25151.0 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

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	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	65	62	60	49	48	47	35	35	34	27				
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	31	30	29	23				
3	78	69	62	57	70	63	57	52	50	46	42	39	36	33	28	26	25	20				
4	72	61	54	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17				
5	66	55	47	41	59	49	43	38	40	35	31	31	28	25	23	20	19	15				
6	60	49	41	35	54	44	38	33	36	31	27	28	24	22	20	18	16	13				
7	56	44	36	31	50	40	33	29	32	27	24	25	22	19	19	16	15	12				
8	52	40	32	27	46	36	30	25	30	25	21	23	20	17	17	15	13	11				
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12	10				
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	12	11	9				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9950	9950	9950
5°	10039	9962	9910
10°	10007	9938	9885
15°	9963	9901	9848
20°	9913	9849	9776
25°	9843	9777	9664
30°	9737	9668	9529
35°	9594	9510	9374
40°	9375	9274	9106
45°	8993	8835	8653
50°	8319	8119	7959
55°	7261	7097	6947
60°	6119	6067	5947
65°	5293	5313	5272
70°	4861	4886	4886
75°	4669	4669	4702
80°	4392	4442	4392
85°	3539	3934	3934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.9	1.2
10°-20°	875.3	3.5
20°-30°	1320.2	5.2
30°-40°	1573.1	6.3
40°-50°	1550.9	6.2
50°-60°	1185.3	4.7
60°-70°	733.5	2.9
70°-80°	416.6	1.7
80°-90°	132.3	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°	2501.5	9.9
0°-40°	4074.6	16.2
0°-60°	6810.8	27.1
0°-90°	8093.1	32.2
90°-120°	8049.2	32.0
90°-150°	14824.5	58.9
90°-180°	17058.0	67.8
0°-180°	25151.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3235	3235	3235	3235	3235	
5°	3252	3216	3227	3216	3210	309
15°	3129	3097	3110	3098	3093	883
25°	2901	2865	2881	2851	2848	1335
35°	2555	2525	2533	2500	2497	1595
45°	2068	2040	2031	1995	1990	1584
55°	1354	1332	1324	1301	1296	1213
65°	727	722	730	724	724	737
75°	393	393	393	396	396	415
85°	100	106	112	112	112	117
90°	6	17	37	40	37	17
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°	3235.2	3235.2	3235.2	3235.2	3235.2
2.5°	3255.2	3226.9	3235.2	3228.1	3212.9
5°	3251.9	3216.5	3226.8	3215.5	3210.1
7.5°	3226.8	3191.9	3202.3	3191.1	3187.8
10°	3204.5	3171.8	3182.2	3171.0	3165.5
12.5°	3180.0	3145.1	3157.7	3144.2	3138.8
15°	3129.3	3096.6	3109.8	3098.5	3093.1
17.5°	3073.6	3038.7	3051.8	3038.8	3031.8
20°	3029.0	2996.3	3009.5	2989.9	2987.2
22.5°	2979.9	2947.2	2960.4	2934.2	2933.7
25°	2900.8	2865.4	2881.3	2850.6	2847.8
27.5°	2806.6	2773.9	2787.1	2755.8	2752.5
30°	2742.0	2709.3	2722.4	2688.9	2683.4
32.5°	2668.4	2637.9	2648.9	2615.4	2612.1
35°	2555.3	2525.3	2533.0	2499.5	2496.7
37.5°	2426.5	2399.3	2403.7	2366.8	2364.1
40°	2335.1	2307.9	2310.0	2271.0	2268.2
42.5°	2234.8	2207.6	2205.3	2166.2	2163.5
45°	2067.6	2040.4	2031.4	1995.0	1989.6
47.5°	1877.0	1849.8	1833.0	1803.4	1799.5
50°	1738.8	1711.6	1697.0	1671.7	1663.6
52.5°	1589.4	1562.2	1549.9	1526.8	1518.7
55°	1354.3	1332.5	1323.6	1301.2	1295.7
57.5°	1130.8	1116.1	1113.5	1091.7	1089.5
60°	994.8	986.6	986.4	966.9	966.9
62.5°	878.9	872.9	877.2	864.3	862.2
65°	727.3	721.8	730.1	724.5	724.5
67.5°	607.5	607.5	612.5	610.3	610.3
70°	540.6	540.6	543.4	543.4	543.4
72.5°	480.4	478.2	485.4	485.4	483.2
75°	392.9	392.9	392.9	395.7	395.7
77.5°	306.0	306.5	308.7	308.1	306.0
80°	248.0	250.7	250.8	248.0	248.0
82.5°	190.0	192.8	192.8	192.2	190.0
85°	100.3	105.8	111.5	111.5	111.5
87.5°	30.1	41.1	52.0	52.5	49.8
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)