

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: P563105

Luminaire Tested: **SQ4-PC3-150U-075D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563105
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-150U-075D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

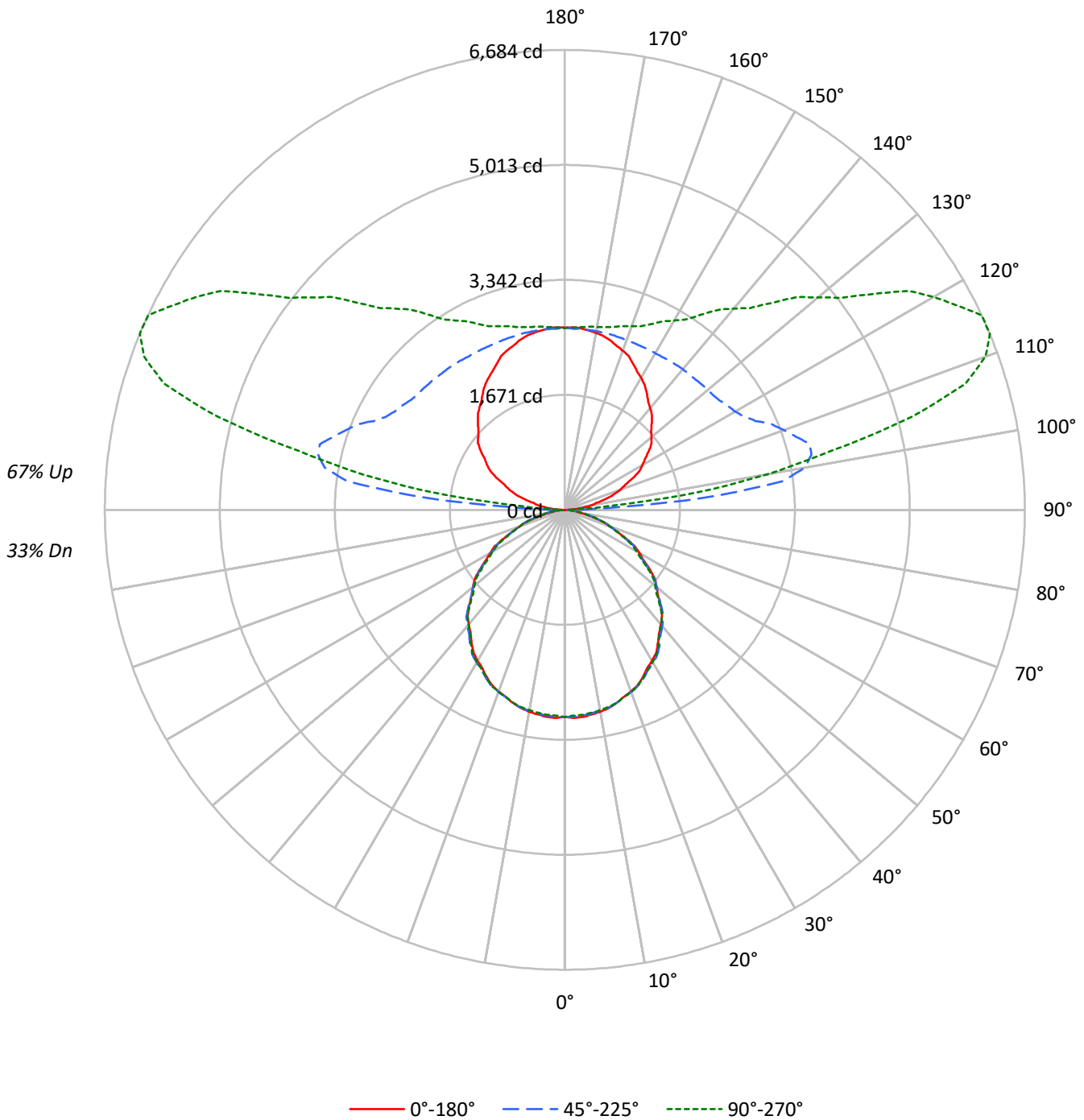
Lumens per Lamp: N/A
Luminaire Lumens: 25276.8 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

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



TEST NUMBER: P563105
CATALOG NUMBER: SQ4-PC3-150U-075D-830-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P563105

CATALOG NUMBER: SQ4-PC3-150U-075D-830-1D-UNV-STD-W-12

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	33
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	35	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	28	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	58	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	18	16	13
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	23	19	16	17	14	13	10
9	48	36	28	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9255	9255	9255
5°	9325	9265	9231
10°	9302	9259	9233
15°	9254	9254	9245
20°	9193	9220	9220
25°	9106	9172	9144
30°	8995	9104	9064
35°	8861	8997	8934
40°	8715	8838	8748
45°	8556	8617	8484
50°	8333	8333	8199
55°	8068	7963	7844
60°	7679	7524	7404
65°	7097	6955	6894
70°	6214	6264	6239
75°	5000	5530	5562
80°	3553	4688	4738
85°	2163	3934	3934



TEST NUMBER: P563105

CATALOG NUMBER: SQ4-PC3-150U-075D-830-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.8	1.1
10°-20°	817.3	3.2
20°-30°	1237.7	4.9
30°-40°	1483.9	5.9
40°-50°	1513.1	6.0
50°-60°	1320.8	5.2
60°-70°	945.6	3.7
70°-80°	487.0	1.9
80°-90°	128.7	0.5
90°-100°	1229.6	4.9
100°-110°	3324.5	13.2
110°-120°	3495.2	13.8
120°-130°	2839.1	11.2
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°	2339.9	9.3
0°-40°	3823.8	15.1
0°-60°	6657.7	26.3
0°-90°	8218.9	32.5
90°-120°	8049.2	31.8
90°-150°	14824.5	58.6
90°-180°	17058.0	67.5
0°-180°	25276.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3010	3010	3010	3010	3010	
5°	3021	2991	3001	2993	2990	287
15°	2906	2882	2906	2906	2904	819
25°	2683	2664	2703	2695	2695	1235
35°	2360	2355	2396	2380	2380	1476
45°	1967	1962	1981	1956	1951	1514
55°	1505	1486	1485	1463	1463	1341
65°	975	954	956	947	947	965
75°	421	440	465	468	468	455
85°	61	94	112	114	112	83
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	

TEST NUMBER: P563105

CATALOG NUMBER: SQ4-PC3-150U-075D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3009.5	3009.5	3009.5	3009.5	3009.5
2.5°	3027.3	3001.1	3009.5	3002.5	2991.6
5°	3020.6	2990.6	3001.1	2992.7	2990.0
7.5°	2998.9	2968.9	2982.7	2977.1	2974.4
10°	2978.8	2948.8	2964.9	2959.2	2956.5
12.5°	2952.1	2924.3	2942.6	2937.0	2936.5
15°	2906.4	2881.8	2906.4	2906.3	2903.6
17.5°	2849.0	2826.6	2852.9	2854.5	2852.9
20°	2808.8	2784.3	2817.2	2814.5	2817.2
22.5°	2759.8	2739.6	2774.8	2767.7	2770.4
25°	2683.4	2664.4	2702.9	2694.6	2694.6
27.5°	2593.2	2579.5	2621.6	2612.7	2612.7
30°	2533.0	2519.3	2563.6	2552.5	2552.5
32.5°	2466.1	2456.8	2499.0	2485.6	2485.6
35°	2360.2	2354.8	2396.4	2379.7	2379.7
37.5°	2251.0	2246.1	2283.9	2263.6	2257.1
40°	2170.7	2168.0	2201.4	2179.1	2179.1
42.5°	2090.5	2087.7	2116.7	2089.9	2089.9
45°	1967.3	1961.9	1981.2	1956.0	1950.6
47.5°	1833.0	1827.5	1839.7	1812.3	1809.6
50°	1741.6	1736.1	1741.6	1716.5	1713.7
52.5°	1648.0	1638.2	1639.0	1614.0	1613.4
55°	1504.7	1485.7	1485.2	1462.9	1462.9
57.5°	1353.1	1328.1	1330.3	1311.3	1308.6
60°	1248.4	1221.1	1223.3	1206.5	1203.8
62.5°	1145.8	1114.2	1120.7	1101.8	1101.2
65°	975.3	953.5	955.8	947.4	947.4
67.5°	811.4	791.3	805.9	799.2	798.6
70°	691.1	677.4	696.6	696.6	693.8
72.5°	579.6	579.1	603.0	603.0	604.7
75°	420.8	439.8	465.4	468.1	468.1
77.5°	280.9	314.7	342.7	343.8	343.3
80°	200.6	238.8	264.7	270.2	267.5
82.5°	136.0	176.3	197.8	203.4	200.6
85°	61.3	94.0	111.5	114.2	111.5
87.5°	19.0	40.8	52.0	52.4	47.5
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



TEST NUMBER: P563105

CATALOG NUMBER: SQ4-PC3-150U-075D-830-1D-UNV-STD-W-12

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)