

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: P563129

Luminaire Tested: **SQ4-PC3-150U-100D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563129
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-100D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

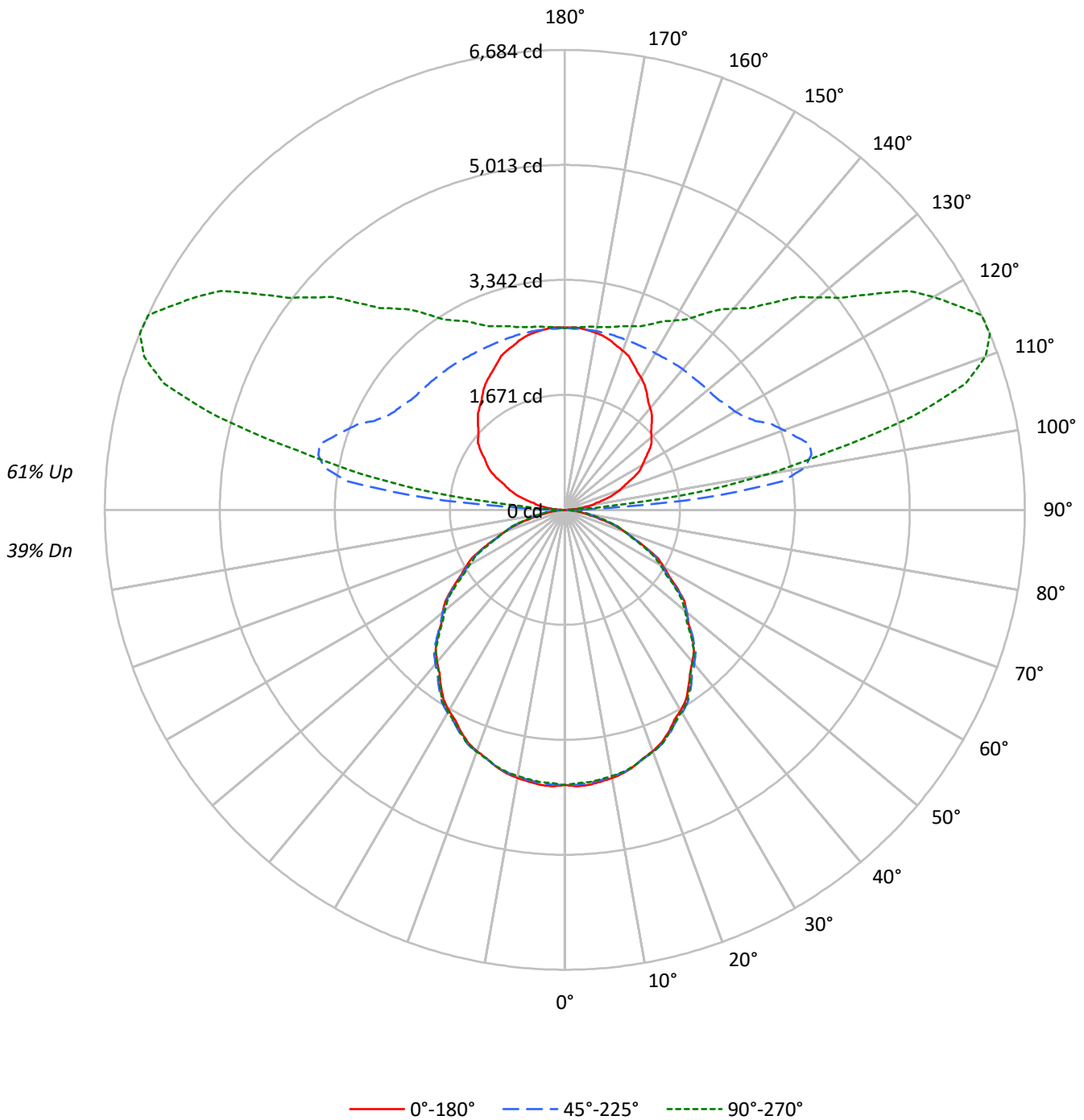
Lumens per Lamp: N/A
Luminaire Lumens: 27976.6 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 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



TEST NUMBER: P563129
CATALOG NUMBER: SQ4-PC3-150U-100D-830-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P563129

CATALOG NUMBER: SQ4-PC3-150U-100D-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	50	30	10	0	
RCR																						
0	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39				
1	95	91	87	84	87	83	80	77	68	65	63	54	52	51	41	40	39	33				
2	87	80	74	69	79	73	67	63	59	56	52	47	45	42	36	34	33	28				
3	79	70	63	57	72	64	58	53	52	48	44	42	38	36	32	30	28	23				
4	72	62	54	48	65	56	50	44	46	41	37	37	33	31	28	26	24	20				
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17				
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15				
7	56	44	36	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13				
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	19	17	14	12				
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11				
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	16	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12298	12298	12298
5°	12390	12310	12265
10°	12360	12302	12267
15°	12295	12295	12283
20°	12214	12251	12251
25°	12099	12187	12149
30°	11952	12096	12044
35°	11774	11954	11871
40°	11579	11743	11624
45°	11369	11449	11272
50°	11072	11072	10894
55°	10720	10581	10422
60°	10202	9998	9838
65°	9430	9242	9160
70°	8256	8323	8290
75°	6643	7347	7391
80°	4722	6229	6294
85°	2876	5226	5226



TEST NUMBER: P563129

CATALOG NUMBER: SQ4-PC3-150U-100D-830-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.4	1.4
10°-20°	1086.0	3.9
20°-30°	1644.6	5.9
30°-40°	1971.7	7.0
40°-50°	2010.4	7.2
50°-60°	1755.0	6.3
60°-70°	1256.4	4.5
70°-80°	647.1	2.3
80°-90°	169.2	0.6
90°-100°	1229.6	4.4
100°-110°	3324.5	11.9
110°-120°	3495.2	12.5
120°-130°	2839.1	10.1
130°-140°	2227.0	8.0
140°-150°	1709.2	6.1
150°-160°	1229.3	4.4
160°-170°	750.9	2.7
170°-180°	253.2	0.9
0°-30°	3109.0	11.1
0°-40°	5080.7	18.2
0°-60°	8846.0	31.6
0°-90°	10918.7	39.0
90°-120°	8049.2	28.8
90°-150°	14824.5	53.0
90°-180°	17058.0	61.0
0°-180°	27976.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3999	3999	3999	3999	3999	
5°	4014	3974	3988	3976	3973	381
15°	3862	3829	3862	3862	3858	1089
25°	3566	3540	3591	3580	3580	1641
35°	3136	3129	3184	3162	3162	1961
45°	2614	2607	2632	2599	2592	2012
55°	1999	1974	1973	1944	1944	1782
65°	1296	1267	1270	1259	1259	1282
75°	559	584	618	622	622	604
85°	82	125	148	152	148	111
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	

TEST NUMBER: P563129

CATALOG NUMBER: SQ4-PC3-150U-100D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3998.7	3998.7	3998.7	3998.7	3998.7
2.5°	4022.4	3987.6	3998.7	3989.5	3975.0
5°	4013.5	3973.7	3987.6	3976.4	3972.8
7.5°	3984.6	3944.8	3963.1	3955.7	3952.0
10°	3958.0	3918.1	3939.5	3932.0	3928.3
12.5°	3922.4	3885.5	3909.8	3902.4	3901.7
15°	3861.7	3829.1	3861.7	3861.6	3858.0
17.5°	3785.4	3755.7	3790.6	3792.8	3790.6
20°	3732.1	3699.5	3743.2	3739.6	3743.2
22.5°	3666.9	3640.2	3686.9	3677.4	3681.0
25°	3565.5	3540.2	3591.4	3580.3	3580.3
27.5°	3445.5	3427.4	3483.3	3471.5	3471.5
30°	3365.6	3347.5	3406.3	3391.5	3391.5
32.5°	3276.7	3264.4	3320.4	3302.6	3302.6
35°	3136.0	3128.8	3184.1	3161.9	3161.9
37.5°	2990.9	2984.4	3034.6	3007.7	2999.0
40°	2884.2	2880.6	2925.0	2895.3	2895.3
42.5°	2777.6	2774.0	2812.4	2776.9	2776.9
45°	2614.0	2606.7	2632.5	2599.0	2591.7
47.5°	2435.5	2428.3	2444.4	2408.0	2404.4
50°	2314.1	2306.8	2314.1	2280.7	2277.0
52.5°	2189.7	2176.6	2177.8	2144.5	2143.7
55°	1999.3	1974.0	1973.4	1943.8	1943.8
57.5°	1797.9	1764.6	1767.6	1742.3	1738.7
60°	1658.7	1622.5	1625.4	1603.1	1599.5
62.5°	1522.5	1480.5	1489.1	1463.9	1463.2
65°	1295.9	1266.9	1270.0	1258.8	1258.8
67.5°	1078.2	1051.4	1070.8	1061.9	1061.1
70°	918.2	900.1	925.6	925.5	921.9
72.5°	770.1	769.4	801.2	801.3	803.4
75°	559.1	584.4	618.3	622.0	622.0
77.5°	373.2	418.1	455.4	456.9	456.1
80°	266.6	317.3	351.7	359.1	355.4
82.5°	180.7	234.3	262.9	270.2	266.6
85°	81.5	124.9	148.1	151.7	148.1
87.5°	24.8	53.1	66.6	67.1	60.7
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: P563129

CATALOG NUMBER: SQ4-PC3-150U-100D-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)