

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: P563133

Luminaire Tested: **SQ4-PC3-150U-100D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563133
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-835-1D-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29639.7 lumens
Efficiency: N/A
Efficacy: 132.5 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

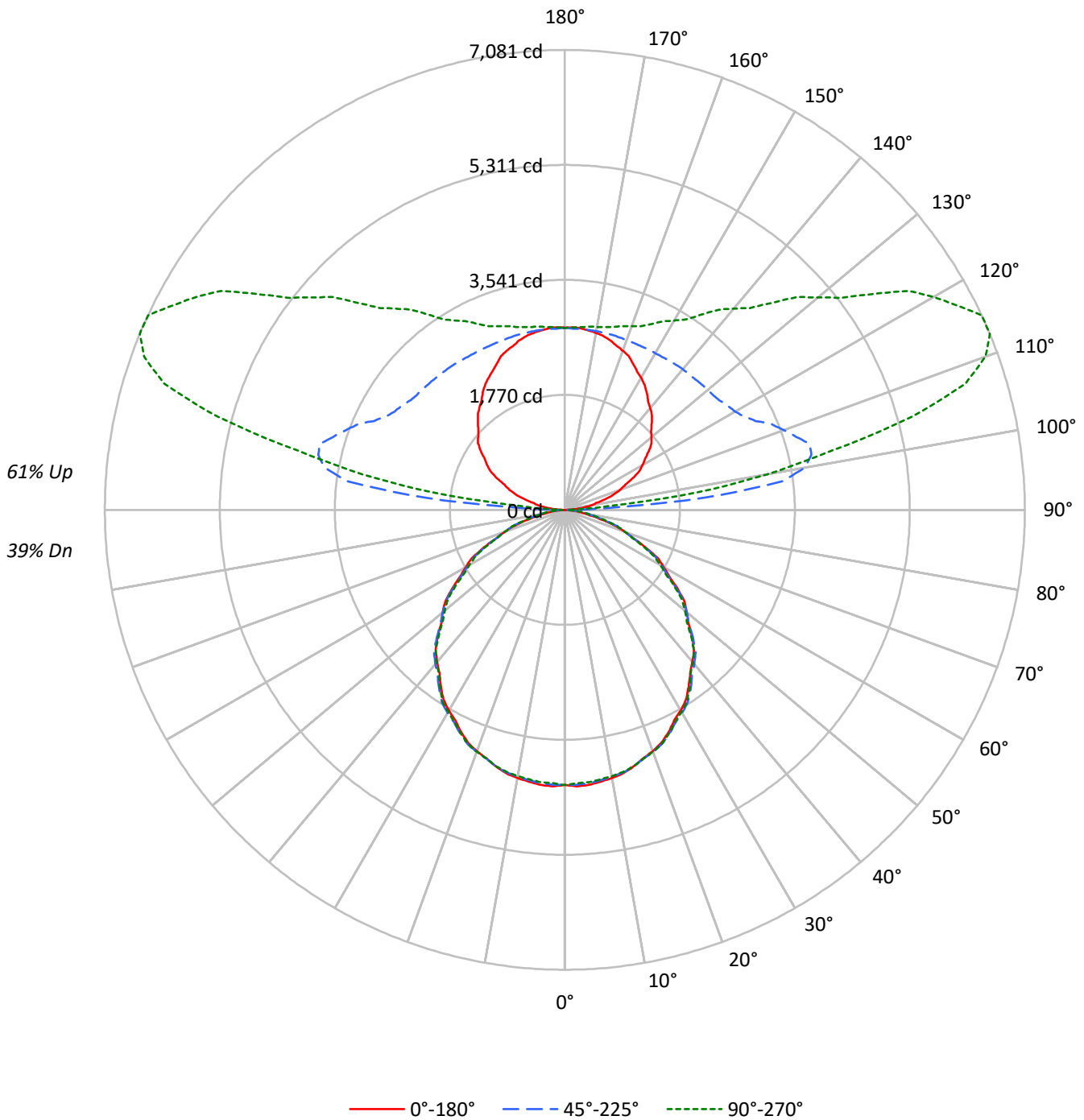
Input Watts (W): 223.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P563133

CATALOG NUMBER: SQ4-PC3-150U-100D-835-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P563133

CATALOG NUMBER: SQ4-PC3-150U-100D-835-1D-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	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°	13029	13029	13029
5°	13127	13042	12993
10°	13095	13034	12997
15°	13026	13026	13014
20°	12941	12979	12979
25°	12818	12911	12871
30°	12662	12815	12760
35°	12474	12665	12577
40°	12268	12441	12315
45°	12044	12130	11942
50°	11730	11730	11542
55°	11357	11210	11042
60°	10809	10592	10423
65°	9991	9791	9705
70°	8747	8817	8782
75°	7038	7784	7831
80°	5001	6599	6670
85°	3045	5536	5536



TEST NUMBER: P563133

CATALOG NUMBER: SQ4-PC3-150U-100D-835-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.9	1.4
10°-20°	1150.5	3.9
20°-30°	1742.4	5.9
30°-40°	2088.9	7.0
40°-50°	2129.9	7.2
50°-60°	1859.3	6.3
60°-70°	1331.1	4.5
70°-80°	685.6	2.3
80°-90°	179.2	0.6
90°-100°	1302.7	4.4
100°-110°	3522.1	11.9
110°-120°	3703.0	12.5
120°-130°	3007.8	10.1
130°-140°	2359.4	8.0
140°-150°	1810.8	6.1
150°-160°	1302.3	4.4
160°-170°	795.6	2.7
170°-180°	268.2	0.9
0°-30°	3293.8	11.1
0°-40°	5382.7	18.2
0°-60°	9371.9	31.6
0°-90°	11567.8	39.0
90°-120°	8527.7	28.8
90°-150°	15705.8	53.0
90°-180°	18072.0	61.0
0°-180°	29639.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4236	4236	4236	4236	4236	
5°	4252	4210	4225	4213	4209	404
15°	4091	4057	4091	4091	4087	1154
25°	3777	3751	3805	3793	3793	1738
35°	3322	3315	3373	3350	3350	2078
45°	2769	2762	2789	2754	2746	2132
55°	2118	2091	2091	2059	2059	1888
65°	1373	1342	1345	1334	1334	1358
75°	592	619	655	659	659	640
85°	86	132	157	161	157	117
90°	6	18	39	42	39	17
95°	202	710	2166	1121	667	212
105°	655	1012	3907	5764	5528	690
115°	1153	1409	3240	6273	7081	1138
125°	1578	1808	2921	4929	5790	1407
135°	1892	2116	2842	3980	4505	1462
145°	2200	2365	2803	3406	3666	1376
155°	2483	2580	2779	3056	3156	1145
165°	2703	2730	2791	2900	2915	762
175°	2806	2803	2794	2830	2824	266
180°	2803	2803	2803	2803	2803	

TEST NUMBER: P563133

CATALOG NUMBER: SQ4-PC3-150U-100D-835-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4236.4	4236.4	4236.4	4236.4	4236.4
2.5°	4261.5	4224.7	4236.4	4226.6	4211.3
5°	4252.1	4209.9	4224.6	4212.8	4208.9
7.5°	4221.5	4179.3	4198.7	4190.8	4187.0
10°	4193.2	4151.0	4173.6	4165.7	4161.9
12.5°	4155.6	4116.5	4142.2	4134.4	4133.6
15°	4091.2	4056.7	4091.2	4091.2	4087.3
17.5°	4010.4	3979.0	4015.9	4018.2	4015.9
20°	3954.0	3919.4	3965.7	3961.9	3965.7
22.5°	3884.9	3856.5	3906.1	3896.0	3899.8
25°	3777.4	3750.6	3804.9	3793.1	3793.1
27.5°	3650.4	3631.2	3690.4	3677.8	3677.8
30°	3565.6	3546.4	3608.8	3593.1	3593.1
32.5°	3471.5	3458.4	3517.8	3498.9	3498.9
35°	3322.4	3314.8	3373.4	3349.9	3349.9
37.5°	3168.7	3161.8	3214.9	3186.5	3177.3
40°	3055.7	3051.9	3098.8	3067.5	3067.5
42.5°	2942.7	2938.9	2979.6	2941.9	2941.9
45°	2769.3	2761.7	2789.0	2753.5	2745.8
47.5°	2580.3	2572.6	2589.7	2551.2	2547.3
50°	2451.6	2443.9	2451.6	2416.2	2412.4
52.5°	2319.8	2306.0	2307.3	2271.9	2271.2
55°	2118.2	2091.3	2090.7	2059.4	2059.4
57.5°	1904.8	1869.5	1872.6	1845.9	1842.0
60°	1757.3	1719.0	1722.0	1698.4	1694.6
62.5°	1613.0	1568.5	1577.7	1551.0	1550.2
65°	1372.9	1342.2	1345.4	1333.7	1333.7
67.5°	1142.3	1113.9	1134.4	1125.0	1124.2
70°	972.8	953.6	980.6	980.6	976.7
72.5°	815.9	815.1	848.8	848.9	851.2
75°	592.3	619.2	655.1	659.0	659.0
77.5°	395.4	443.0	482.5	484.0	483.3
80°	282.4	336.1	372.6	380.4	376.6
82.5°	191.4	248.2	278.5	286.3	282.4
85°	86.3	132.3	156.9	160.7	156.9
87.5°	26.3	56.3	70.6	71.1	64.3
90°	6.0	17.8	39.2	42.2	39.2
92.5°	85.7	312.3	616.1	267.5	193.7
95°	202.2	709.6	2166.4	1121.1	666.8
97.5°	324.7	813.8	3376.9	2794.6	2052.3
100°	416.4	855.9	3753.4	3914.4	3165.0
102.5°	500.9	914.5	3886.2	4763.5	4203.0
105°	654.7	1011.7	3907.3	5763.5	5527.5
107.5°	797.1	1122.8	3736.5	6387.4	6465.9
110°	908.2	1203.2	3584.4	6554.9	6888.3

TEST NUMBER: P563133

CATALOG NUMBER: SQ4-PC3-150U-100D-835-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1007.1	1283.3	3444.4	6521.4	7081.4
115°	1152.6	1409.2	3240.5	6273.0	7081.4
117.5°	1295.0	1535.7	3105.9	5893.5	6809.8
120°	1381.9	1617.9	3026.3	5621.2	6556.4
122.5°	1463.9	1695.2	2978.0	5329.3	6271.6
125°	1578.0	1808.1	2920.7	4928.6	5790.0
127.5°	1683.0	1909.0	2886.9	4601.6	5359.2
130°	1740.9	1974.0	2872.4	4399.5	5084.0
132.5°	1801.3	2032.0	2857.9	4217.3	4847.4
135°	1891.8	2116.0	2842.2	3979.6	4504.7
137.5°	1982.9	2194.7	2828.9	3786.7	4214.4
140°	2045.7	2243.3	2824.1	3662.5	4043.1
142.5°	2106.0	2291.9	2814.4	3550.4	3883.7
145°	2199.5	2364.7	2803.0	3406.3	3665.9
147.5°	2284.6	2431.0	2789.7	3275.8	3475.2
150°	2347.4	2477.2	2784.9	3204.9	3364.2
152.5°	2405.3	2518.6	2782.5	3139.1	3270.0
155°	2483.2	2580.5	2778.8	3055.7	3156.0
157.5°	2564.0	2631.9	2779.4	2997.6	3063.7
160°	2609.9	2665.9	2781.9	2960.9	3008.2
162.5°	2646.1	2692.7	2784.3	2931.7	2967.1
165°	2703.4	2730.0	2790.9	2899.9	2914.6
167.5°	2742.6	2760.9	2791.5	2872.5	2879.6
170°	2766.8	2775.6	2793.9	2860.3	2860.3
172.5°	2786.1	2787.9	2793.9	2845.8	2843.4
175°	2806.0	2803.0	2793.9	2830.0	2824.1
177.5°	2812.6	2805.6	2793.3	2817.3	2810.2
180°	2803.0	2803.0	2803.0	2803.0	2803.0

(END OF REPORT)