

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: P563563

Luminaire Tested: **SQ4-PP3-100U-050D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563563
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PP3-100U-050D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

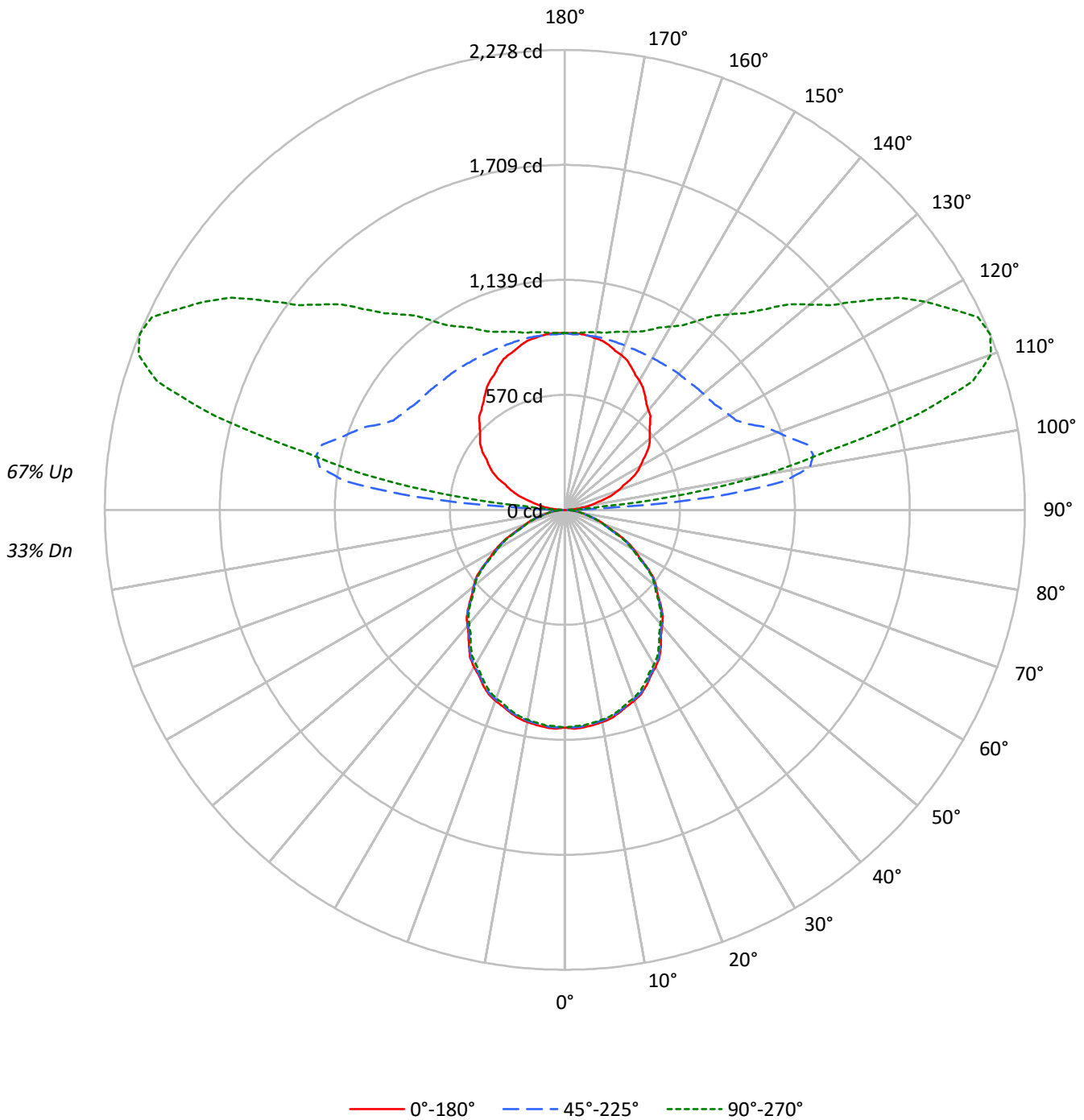
Lumens per Lamp: N/A
Luminaire Lumens: 8448.2 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 64.3
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: P563563
CATALOG NUMBER: SQ4-PP3-100U-050D-830-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P563563

CATALOG NUMBER: SQ4-PP3-100U-050D-830-1D-UNV-STD-W-6

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	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	32	30	29	23
3	78	69	62	56	70	63	57	52	50	46	42	39	36	33	28	26	25	20
4	71	61	53	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17
5	66	54	47	41	59	49	43	37	40	35	31	31	27	25	23	20	19	15
6	60	49	41	35	54	44	37	32	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	15	12
8	52	40	32	27	46	36	30	25	29	24	21	23	20	17	17	15	13	10
9	48	36	29	24	43	33	27	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	15	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6632	6632	6632
5°	6681	6640	6617
10°	6670	6623	6594
15°	6626	6590	6554
20°	6582	6545	6495
25°	6504	6459	6394
30°	6384	6349	6269
35°	6216	6174	6096
40°	6018	5979	5911
45°	5853	5812	5755
50°	5643	5607	5553
55°	5351	5280	5240
60°	4871	4731	4709
65°	4292	4113	4098
70°	3705	3552	3552
75°	3189	3144	3099
80°	2812	2844	2777
85°	2202	2399	2399



TEST NUMBER: P563563

CATALOG NUMBER: SQ4-PP3-100U-050D-830-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	1.2
10°-20°	291.2	3.4
20°-30°	436.1	5.2
30°-40°	511.5	6.1
40°-50°	513.1	6.1
50°-60°	437.7	5.2
60°-70°	285.5	3.4
70°-80°	143.2	1.7
80°-90°	41.4	0.5
90°-100°	409.9	4.9
100°-110°	1131.5	13.4
110°-120°	1166.9	13.8
120°-130°	937.7	11.1
130°-140°	736.9	8.7
140°-150°	565.2	6.7
150°-160°	406.2	4.8
160°-170°	248.4	2.9
170°-180°	83.8	1.0
0°-30°	829.2	9.8
0°-40°	1340.7	15.9
0°-60°	2291.6	27.1
0°-90°	2761.7	32.7
90°-120°	2708.2	32.1
90°-150°	4948.1	58.6
90°-180°	5686.0	67.3
0°-180°	8448.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1078	1078	1078	1078	1078	
5°	1082	1072	1076	1072	1072	103
15°	1040	1030	1035	1031	1029	294
25°	958	947	952	943	942	441
35°	828	820	822	813	812	517
45°	673	668	668	662	662	518
55°	499	497	492	490	489	443
65°	295	289	283	281	282	294
75°	134	134	132	131	130	146
85°	31	34	34	34	34	37
90°	3	6	11	13	14	5
95°	60	222	744	306	199	64
105°	202	311	1245	1900	1790	215
115°	361	437	1003	1985	2257	355
125°	496	564	909	1538	1805	441
135°	596	661	884	1246	1404	462
145°	692	740	872	1060	1141	433
155°	780	806	865	952	982	359
165°	844	855	870	903	910	238
175°	875	876	871	884	881	83
180°	875	875	875	875	875	

TEST NUMBER: P563563

CATALOG NUMBER: SQ4-PP3-100U-050D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1078.3	1078.3	1078.3	1078.3	1078.3
2.5°	1085.1	1076.3	1078.3	1076.7	1072.3
5°	1082.1	1072.0	1075.5	1071.7	1071.7
7.5°	1074.7	1063.7	1067.2	1063.4	1063.2
10°	1067.9	1056.9	1060.4	1056.6	1055.7
12.5°	1058.1	1047.0	1051.3	1046.8	1046.6
15°	1040.5	1030.4	1034.9	1031.0	1029.2
17.5°	1020.7	1009.6	1015.0	1009.7	1009.0
20°	1005.6	994.5	999.9	992.3	992.3
22.5°	987.4	976.3	982.5	972.7	972.7
25°	958.3	947.2	951.7	943.2	942.2
27.5°	923.7	912.8	917.5	907.8	907.7
30°	898.8	888.6	894.0	883.6	882.7
32.5°	871.6	862.1	866.1	855.7	854.7
35°	827.9	819.6	822.2	812.8	811.8
37.5°	782.0	773.5	776.5	768.3	768.0
40°	749.5	743.9	744.7	738.1	736.2
42.5°	719.2	712.9	713.7	707.1	706.7
45°	672.9	668.3	668.2	661.6	661.6
47.5°	623.8	620.2	619.2	613.7	613.5
50°	589.7	587.0	586.0	581.2	580.3
52.5°	554.2	552.9	549.7	545.7	545.5
55°	499.0	497.2	492.4	489.5	488.6
57.5°	439.1	435.4	430.0	425.9	426.6
60°	396.0	392.3	384.6	382.8	382.8
62.5°	354.4	350.0	342.3	339.7	341.2
65°	294.9	289.3	282.6	280.7	281.6
67.5°	240.8	235.8	228.5	228.5	227.8
70°	206.0	203.3	197.5	197.5	197.5
72.5°	175.0	173.7	169.5	169.5	168.8
75°	134.2	134.2	132.3	131.3	130.4
77.5°	100.6	100.9	100.0	99.0	97.3
80°	79.4	81.2	80.3	79.4	78.4
82.5°	59.7	61.6	61.4	59.7	59.5
85°	31.2	34.0	34.0	34.0	34.0
87.5°	8.9	12.4	14.3	14.6	15.7
90°	2.8	5.5	11.2	12.6	14.0
92.5°	25.2	104.6	187.1	68.3	53.2
95°	60.2	221.8	743.6	305.6	198.8
97.5°	99.7	248.4	1101.5	848.0	614.2
100°	128.8	264.4	1233.7	1242.4	1009.6
102.5°	156.8	282.5	1259.4	1535.0	1314.3
105°	201.6	311.2	1244.9	1900.5	1789.6
107.5°	249.3	346.7	1175.4	2076.7	2117.2
110°	282.9	370.5	1121.6	2114.6	2246.1



TEST NUMBER: P563563

CATALOG NUMBER: SQ4-PP3-100U-050D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	313.1	397.4	1071.2	2084.7	2278.5
115°	361.3	436.6	1002.6	1984.8	2257.3
117.5°	403.3	478.3	957.5	1844.2	2154.2
120°	431.3	505.2	939.6	1749.1	2061.2
122.5°	458.2	528.8	925.0	1660.2	1955.9
125°	495.7	564.2	908.8	1538.0	1805.0
127.5°	527.6	596.1	899.3	1434.6	1664.9
130°	548.9	617.4	894.8	1371.4	1580.9
132.5°	569.1	634.2	890.3	1318.3	1508.1
135°	596.5	660.9	883.6	1245.7	1404.5
137.5°	627.3	685.9	880.2	1184.6	1320.2
140°	644.1	701.6	878.0	1143.9	1263.1
142.5°	663.2	716.3	875.7	1107.8	1212.6
145°	691.7	739.7	872.4	1060.5	1141.2
147.5°	719.2	761.1	869.3	1020.6	1083.3
150°	739.4	773.6	868.2	996.8	1047.4
152.5°	755.0	787.1	867.1	976.4	1018.3
155°	780.0	806.0	865.4	951.5	981.6
157.5°	802.9	822.9	865.7	933.3	953.9
160°	816.4	834.2	866.8	923.1	938.2
162.5°	827.6	843.2	867.9	914.1	925.9
165°	844.4	855.3	869.6	903.3	910.2
167.5°	857.3	863.8	871.0	896.8	899.0
170°	864.0	869.5	871.0	893.4	893.4
172.5°	869.6	872.9	871.0	888.9	887.8
175°	875.2	876.5	871.0	883.5	880.8
177.5°	877.4	876.3	870.7	878.5	876.3
180°	875.2	875.2	875.2	875.2	875.2

(END OF REPORT)