

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: P563328

Luminaire Tested: **SQ4-PP3-050U-100D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563328  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PP3-050U-100D-835-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

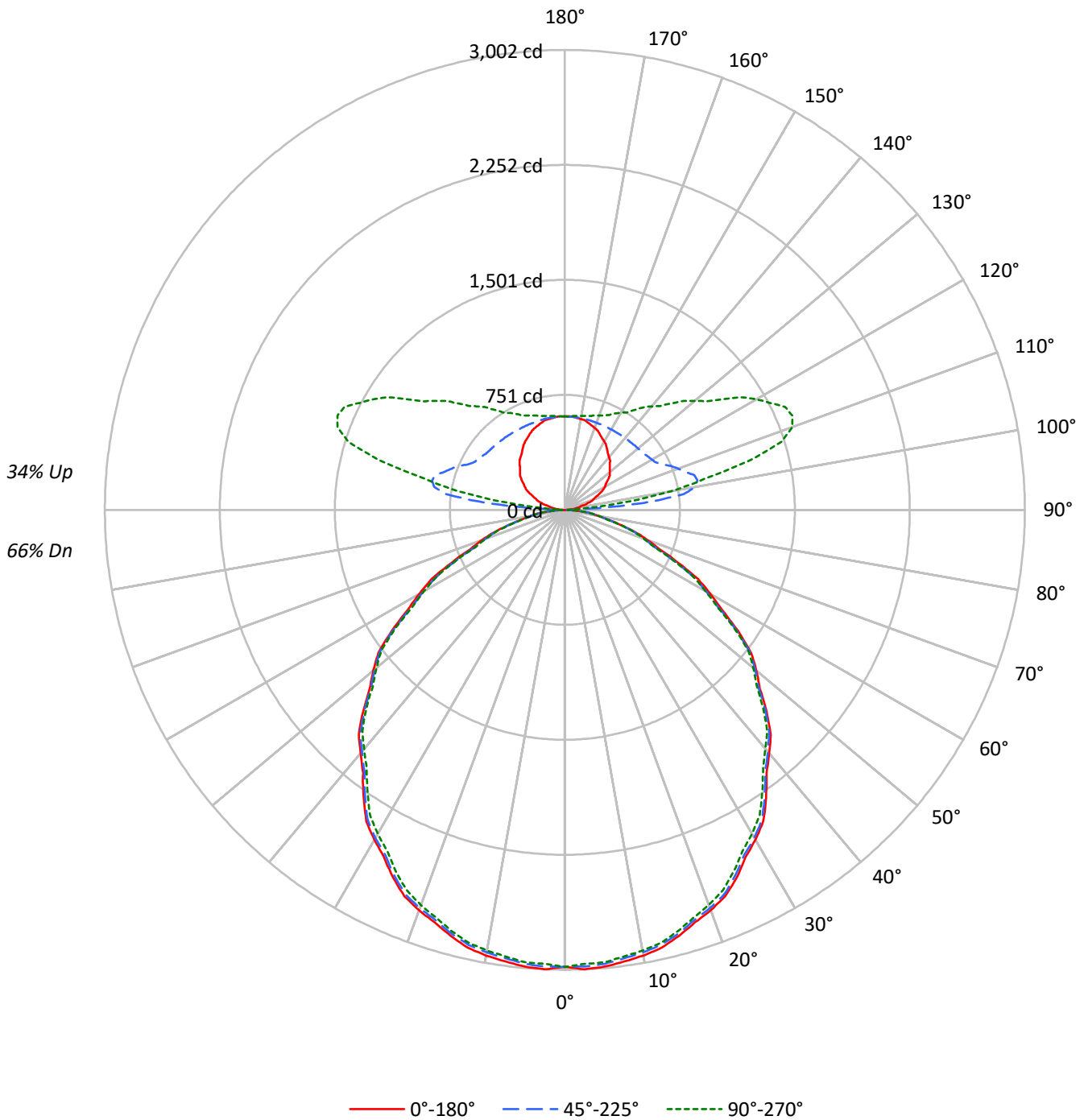
Lumens per Lamp: N/A  
Luminaire Lumens: 11621.2 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 95.4  
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: P563328  
CATALOG NUMBER: SQ4-PP3-050U-100D-835-1D-UNV-STD-W-8

### Luminous Intensity Polar Plot





TEST NUMBER: P563328

CATALOG NUMBER: SQ4-PP3-050U-100D-835-1D-UNV-STD-W-8

**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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	102	97	93	90	95	92	88	85	81	79	76	72	70	68	63	61	60	56
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51	47
3	85	75	68	62	79	71	64	59	63	58	54	56	52	49	49	46	44	40
4	78	67	59	52	73	63	56	50	56	51	46	50	46	42	44	41	38	35
5	71	60	51	45	67	56	49	43	51	44	40	45	40	36	40	36	33	30
6	66	54	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	26
7	61	48	40	35	57	46	39	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	31	53	42	35	30	38	32	27	34	29	25	30	26	23	21
9	53	40	33	27	50	38	31	27	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	29	24	32	26	22	29	24	21	26	22	19	17

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	13761	13761	13761
5°	13862	13777	13729
10°	13839	13741	13679
15°	13747	13672	13597
20°	13656	13579	13477
25°	13494	13400	13268
30°	13244	13175	13007
35°	12897	12810	12647
40°	12485	12406	12264
45°	12144	12059	11939
50°	11708	11633	11521
55°	11102	10955	10871
60°	10106	9818	9769
65°	8904	8533	8504
70°	7687	7370	7370
75°	6616	6523	6431
80°	5834	5903	5765
85°	4568	4981	4981



TEST NUMBER: P563328

CATALOG NUMBER: SQ4-PP3-050U-100D-835-1D-UNV-STD-W-8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.1	2.4
10°-20°	805.4	6.9
20°-30°	1206.4	10.4
30°-40°	1415.1	12.2
40°-50°	1419.5	12.2
50°-60°	1210.9	10.4
60°-70°	789.7	6.8
70°-80°	396.2	3.4
80°-90°	112.0	1.0
90°-100°	292.9	2.5
100°-110°	795.7	6.8
110°-120°	818.1	7.0
120°-130°	654.1	5.6
130°-140°	513.9	4.4
140°-150°	394.1	3.4
150°-160°	283.4	2.4
160°-170°	173.3	1.5
170°-180°	58.4	0.5
0°-30°	2293.9	19.7
0°-40°	3709.0	31.9
0°-60°	6339.4	54.6
0°-90°	7637.3	65.7
90°-120°	1906.7	16.4
90°-150°	3468.7	29.8
90°-180°	3984.0	34.3
0°-180°	11621.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2983	2983	2983	2983	2983	
5°	2994	2965	2975	2965	2965	284
15°	2878	2850	2863	2852	2847	812
25°	2651	2620	2633	2609	2607	1219
35°	2290	2267	2275	2248	2246	1431
45°	1862	1849	1848	1830	1830	1433
55°	1380	1375	1362	1354	1352	1227
65°	816	800	782	776	779	814
75°	371	371	366	363	361	403
85°	86	94	94	94	94	101
90°	2	8	14	18	18	6
95°	43	160	510	222	149	46
105°	141	220	875	1332	1254	150
115°	251	305	700	1393	1587	248
125°	345	393	634	1068	1260	308
135°	416	462	616	870	981	322
145°	481	515	608	739	795	302
155°	543	563	604	664	683	251
165°	589	596	606	632	634	166
175°	610	612	608	616	614	58
180°	610	610	610	610	610	

TEST NUMBER: P563328

CATALOG NUMBER: SQ4-PP3-050U-100D-835-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2983.1	2983.1	2983.1	2983.1	2983.1
2.5°	3001.9	2977.4	2983.1	2978.6	2966.3
5°	2993.5	2965.4	2975.2	2964.8	2964.8
7.5°	2973.1	2942.5	2952.2	2941.7	2941.2
10°	2954.3	2923.6	2933.4	2922.9	2920.3
12.5°	2927.1	2896.4	2908.3	2895.7	2895.2
15°	2878.5	2850.4	2862.8	2852.2	2847.1
17.5°	2823.6	2792.9	2807.9	2793.2	2791.2
20°	2781.8	2751.1	2766.1	2745.2	2745.2
22.5°	2731.6	2700.9	2718.0	2690.8	2690.8
25°	2651.0	2620.4	2632.7	2609.1	2606.6
27.5°	2555.3	2525.2	2538.1	2511.4	2510.9
30°	2486.3	2458.2	2473.3	2444.4	2441.9
32.5°	2411.0	2385.0	2395.9	2367.0	2364.5
35°	2290.2	2267.2	2274.6	2248.4	2245.8
37.5°	2163.2	2139.7	2148.0	2125.5	2124.5
40°	2073.2	2057.9	2060.2	2041.8	2036.6
42.5°	1989.6	1972.2	1974.4	1956.1	1955.1
45°	1861.5	1848.7	1848.4	1830.1	1830.1
47.5°	1725.5	1715.8	1713.0	1697.8	1697.3
50°	1631.4	1623.7	1620.9	1607.8	1605.3
52.5°	1533.1	1529.5	1520.6	1509.6	1509.1
55°	1380.4	1375.3	1362.1	1354.2	1351.7
57.5°	1214.7	1204.4	1189.6	1178.1	1180.2
60°	1095.4	1085.2	1064.1	1058.8	1058.8
62.5°	980.4	968.1	946.9	939.7	943.8
65°	815.7	800.4	781.7	776.5	779.1
67.5°	666.2	652.4	632.2	632.1	630.1
70°	569.9	562.3	546.4	546.4	546.4
72.5°	484.2	480.6	469.0	469.0	466.9
75°	371.2	371.2	366.0	363.3	360.8
77.5°	278.2	279.2	276.6	273.9	269.3
80°	219.6	224.7	222.2	219.6	217.0
82.5°	165.2	170.3	169.9	165.2	164.7
85°	86.3	93.9	94.1	94.1	94.1
87.5°	23.4	32.7	36.2	37.0	39.1
90°	2.0	7.7	13.7	17.7	17.7
92.5°	17.7	80.2	139.3	59.8	50.6
95°	43.2	160.2	510.1	222.0	149.1
97.5°	71.4	176.9	782.0	608.4	427.3
100°	90.2	188.1	865.2	877.1	708.2
102.5°	109.1	199.2	887.2	1084.7	935.8
105°	141.3	219.9	875.0	1332.3	1253.6
107.5°	174.6	244.1	824.4	1460.1	1482.0
110°	198.2	261.5	786.7	1485.3	1579.3

TEST NUMBER: P563328

CATALOG NUMBER: SQ4-PP3-050U-100D-835-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	218.6	278.8	749.1	1464.4	1606.0
115°	251.1	304.8	700.4	1393.4	1587.2
117.5°	281.7	333.1	669.4	1292.7	1511.0
120°	302.1	352.0	655.3	1225.2	1442.0
122.5°	319.4	369.3	645.9	1157.6	1366.7
125°	345.3	393.3	633.7	1067.7	1259.5
127.5°	368.4	416.0	627.0	999.6	1164.2
130°	382.6	428.6	623.9	956.8	1104.5
132.5°	396.7	442.7	620.7	920.4	1051.2
135°	415.9	462.0	616.0	869.7	980.9
137.5°	436.7	478.5	613.7	824.9	918.6
140°	449.3	489.6	612.1	796.5	880.9
142.5°	461.8	499.0	610.5	774.2	844.8
145°	480.7	515.2	608.2	738.9	794.6
147.5°	501.9	531.4	606.2	711.2	754.9
150°	516.0	540.9	606.2	695.3	729.8
152.5°	527.0	548.8	604.7	681.0	709.4
155°	543.4	562.6	604.3	663.6	682.7
157.5°	559.5	574.5	604.3	651.7	666.3
160°	568.9	582.4	604.3	643.8	655.3
162.5°	578.4	588.7	605.8	637.4	645.9
165°	588.6	596.2	606.2	631.8	633.7
167.5°	599.2	603.0	608.2	625.1	626.6
170°	602.3	606.1	608.2	621.9	621.9
172.5°	605.4	607.7	608.2	618.8	618.8
175°	610.1	612.1	608.2	616.0	614.1
177.5°	611.7	611.7	607.0	613.2	610.1
180°	610.1	610.1	610.1	610.1	610.1

(END OF REPORT)