

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: P563244

Luminaire Tested: **SQ4-PP3-025U-100D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563244  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PP3-025U-100D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

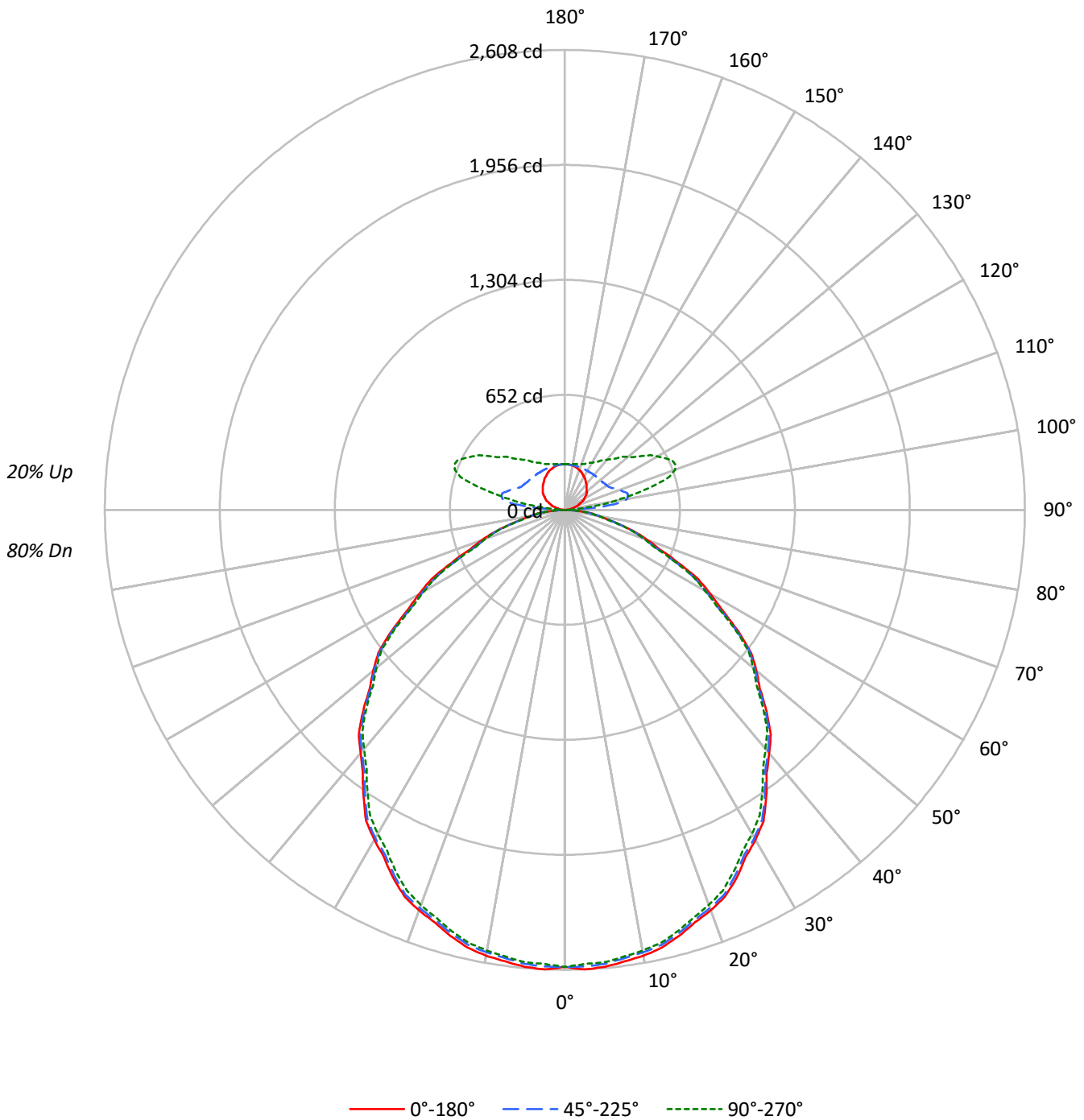
Lumens per Lamp: N/A  
Luminaire Lumens: 8314.0 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 82.2  
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



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### Luminous Intensity Polar Plot





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**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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	105	100	96	93	100	96	93	90	88	86	83	81	79	77	74	73	71	68
2	96	88	82	76	91	85	79	74	78	73	69	72	68	65	66	63	60	57
3	88	78	70	64	83	75	68	62	69	63	59	64	59	55	59	55	52	49
4	80	69	61	55	76	66	59	53	61	55	50	57	52	47	52	48	45	42
5	74	62	53	47	70	59	52	46	55	49	44	51	46	41	47	43	39	37
6	68	56	47	41	65	54	46	40	50	43	38	46	41	36	43	38	35	32
7	63	50	42	36	60	49	41	35	45	39	34	42	37	32	39	34	31	29
8	59	46	38	32	56	44	37	32	41	35	30	39	33	29	36	31	28	26
9	55	42	34	29	52	41	33	28	38	32	27	36	30	26	33	29	25	23
10	51	39	31	26	49	38	30	26	35	29	25	33	28	24	31	26	23	21

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

	0°	45°	90°
0°	11957	11957	11957
5°	12045	11971	11929
10°	12025	11939	11886
15°	11945	11880	11814
20°	11865	11799	11709
25°	11725	11644	11528
30°	11508	11447	11302
35°	11207	11130	10989
40°	10848	10780	10656
45°	10552	10478	10374
50°	10173	10108	10010
55°	9646	9519	9445
60°	8781	8531	8488
65°	7737	7414	7390
70°	6679	6404	6404
75°	5750	5668	5588
80°	5069	5130	5008
85°	3970	4330	4330



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.1	2.9
10°-20°	699.8	8.4
20°-30°	1048.2	12.6
30°-40°	1229.5	14.8
40°-50°	1233.4	14.8
50°-60°	1052.2	12.7
60°-70°	686.2	8.3
70°-80°	344.3	4.1
80°-90°	96.7	1.2
90°-100°	126.2	1.5
100°-110°	331.8	4.0
110°-120°	344.1	4.1
120°-130°	276.0	3.3
130°-140°	216.6	2.6
140°-150°	166.2	2.0
150°-160°	119.7	1.4
160°-170°	73.2	0.9
170°-180°	24.7	0.3
0°-30°	1993.2	24.0
0°-40°	3222.7	38.8
0°-60°	5508.3	66.3
0°-90°	6635.4	79.8
90°-120°	802.1	9.6
90°-150°	1460.9	17.6
90°-180°	1679.0	20.2
0°-180°	8314.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2592	2592	2592	2592	2592	
5°	2601	2577	2585	2576	2576	247
15°	2501	2477	2488	2478	2474	706
25°	2304	2277	2288	2267	2265	1059
35°	1990	1970	1976	1954	1951	1243
45°	1617	1606	1606	1590	1590	1245
55°	1199	1195	1184	1177	1174	1066
65°	709	695	679	675	677	707
75°	323	323	318	316	314	350
85°	75	82	82	82	82	88
90°	2	5	13	7	7	4
95°	17	65	218	112	76	19
105°	60	91	367	557	520	63
115°	106	129	294	586	669	105
125°	148	166	267	452	533	131
135°	176	194	259	365	413	136
145°	204	217	256	311	335	128
155°	231	237	256	281	289	106
165°	249	252	256	266	269	70
175°	259	259	257	261	261	25
180°	259	259	259	259	259	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2592.0	2592.0	2592.0	2592.0	2592.0
2.5°	2608.3	2587.0	2592.0	2588.1	2577.4
5°	2601.1	2576.6	2585.2	2576.1	2576.1
7.5°	2583.3	2556.7	2565.2	2556.1	2555.6
10°	2567.0	2540.3	2548.8	2539.7	2537.4
12.5°	2543.4	2516.7	2527.0	2516.1	2515.6
15°	2501.1	2476.7	2487.5	2478.3	2473.8
17.5°	2453.4	2426.7	2439.8	2427.0	2425.2
20°	2417.0	2390.4	2403.4	2385.2	2385.2
22.5°	2373.4	2346.8	2361.6	2338.0	2338.0
25°	2303.5	2276.8	2287.6	2267.1	2264.8
27.5°	2220.3	2194.1	2205.3	2182.1	2181.7
30°	2160.4	2135.9	2149.0	2124.0	2121.7
32.5°	2094.9	2072.3	2081.8	2056.7	2054.5
35°	1990.0	1970.0	1976.3	1953.6	1951.4
37.5°	1879.6	1859.1	1866.4	1846.8	1846.0
40°	1801.4	1788.1	1790.1	1774.1	1769.6
42.5°	1728.7	1713.6	1715.6	1699.6	1698.7
45°	1617.4	1606.3	1606.1	1590.2	1590.2
47.5°	1499.3	1490.9	1488.4	1475.2	1474.8
50°	1417.5	1410.9	1408.4	1397.0	1394.8
52.5°	1332.1	1329.0	1321.2	1311.6	1311.2
55°	1199.4	1195.0	1183.5	1176.7	1174.4
57.5°	1055.4	1046.5	1033.6	1023.7	1025.4
60°	951.8	942.9	924.6	920.0	920.0
62.5°	851.9	841.2	822.8	816.5	820.1
65°	708.8	695.4	679.2	674.7	677.0
67.5°	578.8	566.8	549.3	549.2	547.5
70°	495.2	488.6	474.8	474.8	474.8
72.5°	420.7	417.6	407.5	407.5	405.7
75°	322.6	322.6	318.0	315.7	313.5
77.5°	241.7	242.6	240.3	238.0	234.0
80°	190.8	195.3	193.1	190.8	188.5
82.5°	143.6	148.0	147.7	143.6	143.1
85°	75.0	81.6	81.8	81.8	81.8
87.5°	20.3	28.1	31.7	30.4	32.2
90°	1.7	4.9	13.3	6.6	6.6
92.5°	7.0	33.6	74.4	32.9	21.2
95°	16.6	65.3	217.5	112.1	76.4
97.5°	28.9	71.7	325.4	258.8	190.6
100°	38.2	77.1	358.6	363.4	282.2
102.5°	46.2	82.5	367.9	452.6	383.1
105°	59.8	90.6	366.9	556.9	519.6
107.5°	73.7	102.3	346.0	611.1	620.2
110°	83.0	109.0	328.7	625.1	664.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	92.3	117.0	312.8	616.3	676.0
115°	106.2	129.0	293.8	586.2	669.0
117.5°	119.9	140.6	280.9	544.6	636.5
120°	127.8	147.3	275.6	516.7	605.9
122.5°	135.8	155.3	271.6	488.7	576.7
125°	147.7	165.6	267.3	451.7	532.9
127.5°	157.4	175.6	263.6	421.9	490.4
130°	162.7	182.2	262.3	403.2	466.5
132.5°	168.0	187.5	261.0	387.1	443.9
135°	176.0	193.8	259.0	364.7	413.4
137.5°	184.3	201.8	258.6	347.9	387.8
140°	190.9	207.1	257.3	334.5	371.9
142.5°	196.2	211.2	257.3	325.1	357.3
145°	204.2	217.2	255.7	311.0	335.3
147.5°	212.2	224.8	255.7	299.3	319.4
150°	217.5	228.8	255.7	292.5	308.8
152.5°	222.8	231.5	255.7	287.1	299.5
155°	230.8	237.2	255.7	280.7	288.9
157.5°	236.7	242.9	255.7	275.0	280.9
160°	240.7	245.6	255.7	272.3	275.6
162.5°	244.7	248.3	255.7	269.7	272.9
165°	249.0	252.3	255.7	265.7	268.9
167.5°	253.0	254.6	257.3	264.0	265.3
170°	255.7	257.3	257.3	264.0	264.0
172.5°	257.0	257.3	257.3	262.6	261.3
175°	259.0	259.0	257.3	260.6	260.6
177.5°	259.0	259.0	257.6	260.3	259.0
180°	259.0	259.0	259.0	259.0	259.0

(END OF REPORT)