

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: P563251

Luminaire Tested: **SQ4-PP3-025U-125D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563251  
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-125D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

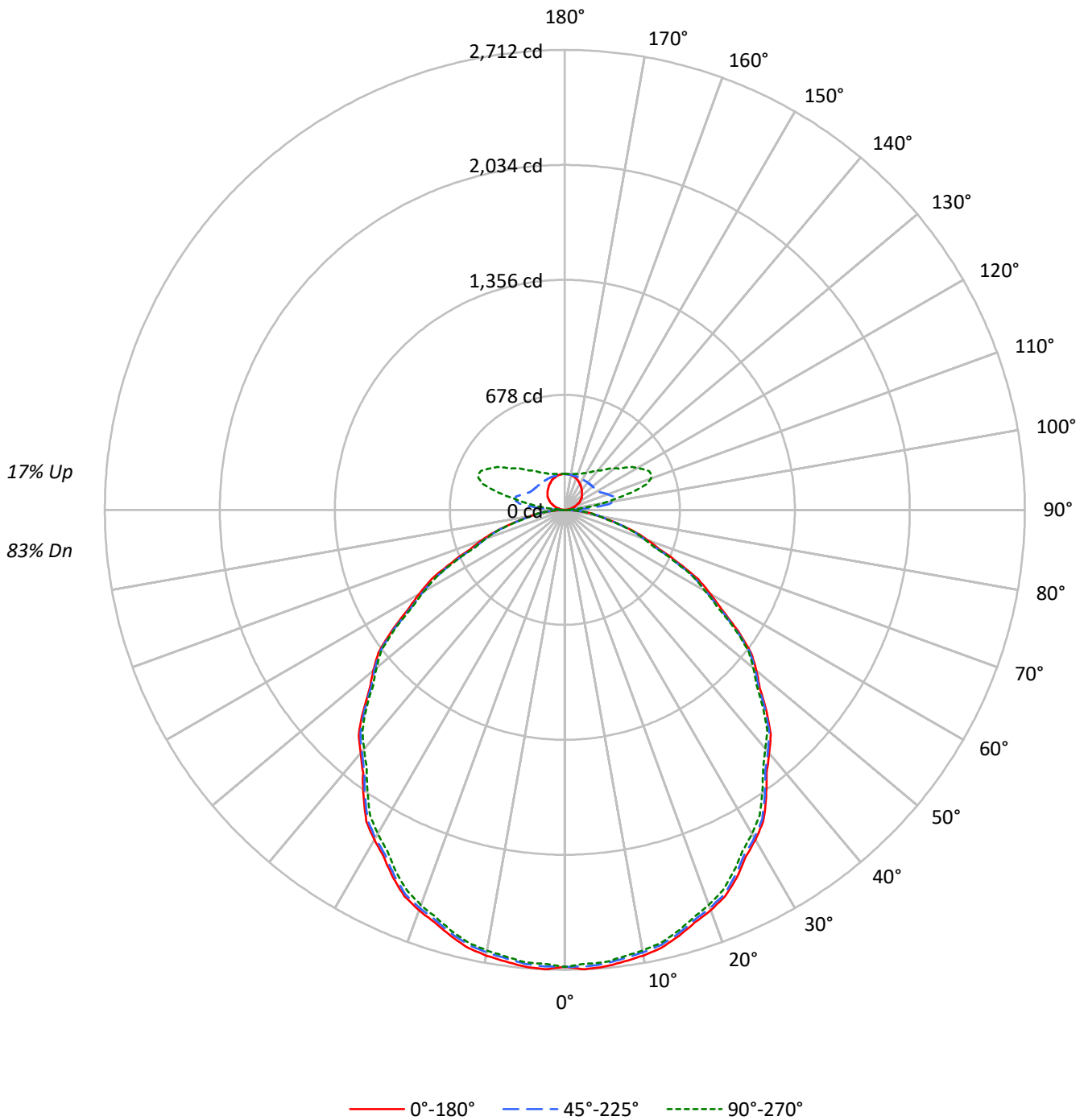
Lumens per Lamp: N/A  
Luminaire Lumens: 8266.1 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 77.9  
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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	83
1	106	101	97	94	101	97	94	91	90	87	85	84	81	79	77	76	74	71
2	96	89	82	77	92	86	80	75	79	75	71	74	70	67	68	66	63	60
3	88	78	71	65	84	76	69	63	70	65	60	65	61	57	61	57	54	51
4	81	70	61	55	77	67	60	54	63	56	51	58	53	49	55	50	47	44
5	74	62	54	48	71	60	52	47	56	50	45	53	47	43	49	45	41	38
6	69	56	48	42	66	54	46	41	51	44	39	48	42	37	45	40	36	34
7	64	51	43	37	61	49	42	36	46	40	35	44	38	33	41	36	32	30
8	59	46	38	33	57	45	37	32	42	36	31	40	34	30	38	33	29	27
9	55	43	35	29	53	41	34	29	39	32	28	37	31	27	35	30	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	32	27	24	22

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

	0°	45°	90°
0°	16576	16576	16576
5°	16697	16595	16537
10°	16669	16551	16477
15°	16559	16469	16379
20°	16449	16357	16233
25°	16253	16141	15981
30°	15953	15869	15668
35°	15536	15429	15234
40°	15039	14944	14773
45°	14628	14525	14381
50°	14103	14013	13877
55°	13373	13195	13095
60°	12174	11826	11768
65°	10725	10278	10243
70°	9260	8877	8877
75°	7971	7859	7745
80°	7028	7113	6943
85°	5498	5999	5999



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.8	3.1
10°-20°	727.6	8.8
20°-30°	1089.9	13.2
30°-40°	1278.4	15.5
40°-50°	1282.4	15.5
50°-60°	1094.0	13.2
60°-70°	713.4	8.6
70°-80°	357.9	4.3
80°-90°	100.2	1.2
90°-100°	102.8	1.2
100°-110°	270.3	3.3
110°-120°	280.3	3.4
120°-130°	224.9	2.7
130°-140°	176.4	2.1
140°-150°	135.4	1.6
150°-160°	97.5	1.2
160°-170°	59.7	0.7
170°-180°	20.2	0.2
0°-30°	2072.3	25.1
0°-40°	3350.7	40.5
0°-60°	5727.0	69.3
0°-90°	6898.6	83.5
90°-120°	653.5	7.9
90°-150°	1190.2	14.4
90°-180°	1368.0	16.5
0°-180°	8266.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2695	2695	2695	2695	2695	
5°	2704	2679	2688	2678	2678	257
15°	2600	2575	2586	2577	2572	734
25°	2395	2367	2378	2357	2355	1101
35°	2069	2048	2055	2031	2029	1292
45°	1682	1670	1670	1653	1653	1295
55°	1247	1242	1230	1223	1221	1108
65°	737	723	706	702	704	735
75°	335	335	331	328	326	364
85°	78	85	85	85	85	92
90°	1	4	11	5	5	4
95°	14	53	177	91	62	15
105°	49	74	299	454	423	52
115°	87	105	239	478	545	85
125°	120	135	218	368	434	107
135°	143	158	211	297	337	111
145°	166	177	208	253	273	104
155°	188	193	208	229	235	86
165°	203	206	208	216	219	57
175°	211	211	210	212	212	20
180°	211	211	211	211	211	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2694.9	2694.9	2694.9	2694.9	2694.9
2.5°	2711.9	2689.7	2694.9	2690.9	2679.8
5°	2704.3	2678.9	2687.8	2678.4	2678.4
7.5°	2685.9	2658.2	2667.0	2657.6	2657.1
10°	2668.9	2641.2	2650.0	2640.5	2638.2
12.5°	2644.4	2616.6	2627.4	2616.0	2615.5
15°	2600.4	2575.0	2586.3	2576.7	2572.1
17.5°	2550.8	2523.1	2536.7	2523.4	2521.5
20°	2513.0	2485.3	2498.9	2480.0	2480.0
22.5°	2467.7	2440.0	2455.4	2430.8	2430.8
25°	2394.9	2367.2	2378.4	2357.1	2354.8
27.5°	2308.5	2281.2	2292.9	2268.8	2268.3
30°	2246.1	2220.7	2234.3	2208.3	2206.0
32.5°	2178.1	2154.6	2164.4	2138.4	2136.1
35°	2069.0	2048.2	2054.8	2031.2	2028.9
37.5°	1954.2	1933.0	1940.5	1920.2	1919.3
40°	1873.0	1859.1	1861.2	1844.5	1839.9
42.5°	1797.4	1781.7	1783.7	1767.1	1766.2
45°	1681.7	1670.1	1669.8	1653.3	1653.3
47.5°	1558.8	1550.1	1547.5	1533.8	1533.3
50°	1473.8	1466.9	1464.4	1452.5	1450.2
52.5°	1385.0	1381.8	1373.7	1363.7	1363.3
55°	1247.1	1242.5	1230.5	1223.4	1221.1
57.5°	1097.3	1088.1	1074.7	1064.3	1066.2
60°	989.6	980.4	961.3	956.6	956.6
62.5°	885.7	874.6	855.5	848.9	852.6
65°	736.9	723.0	706.2	701.5	703.8
67.5°	601.8	589.3	571.1	571.1	569.2
70°	514.9	508.0	493.6	493.6	493.6
72.5°	437.4	434.2	423.7	423.7	421.8
75°	335.4	335.4	330.7	328.2	325.9
77.5°	251.3	252.2	249.9	247.4	243.3
80°	198.4	203.0	200.8	198.3	196.0
82.5°	149.3	153.9	153.5	149.3	148.8
85°	77.9	84.9	85.0	85.0	85.0
87.5°	21.1	29.0	32.4	31.4	33.2
90°	1.4	4.0	10.8	5.4	5.4
92.5°	5.7	27.4	60.6	26.8	17.3
95°	13.5	53.2	177.2	91.3	62.2
97.5°	23.5	58.4	265.1	210.8	155.3
100°	31.1	62.8	292.1	296.1	229.9
102.5°	37.6	67.2	299.7	368.8	312.2
105°	48.7	73.8	298.9	453.8	423.3
107.5°	60.1	83.3	281.9	497.9	505.3
110°	67.6	88.8	267.8	509.3	541.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	75.2	95.3	254.8	502.1	550.8
115°	86.6	105.1	239.4	477.6	545.1
117.5°	97.7	114.6	228.8	443.7	518.6
120°	104.1	120.0	224.5	420.9	493.7
122.5°	110.6	126.5	221.3	398.2	469.9
125°	120.4	134.9	217.8	368.0	434.2
127.5°	128.2	143.0	214.8	343.7	399.5
130°	132.5	148.4	213.7	328.5	380.1
132.5°	136.9	152.7	212.6	315.4	361.7
135°	143.4	157.9	211.0	297.1	336.8
137.5°	150.1	164.4	210.7	283.4	316.0
140°	155.5	168.8	209.6	272.6	303.0
142.5°	159.9	172.0	209.6	264.9	291.1
145°	166.4	176.9	208.3	253.4	273.2
147.5°	172.9	183.2	208.3	243.8	260.2
150°	177.2	186.4	208.3	238.3	251.6
152.5°	181.5	188.7	208.3	233.9	244.0
155°	188.0	193.3	208.3	228.7	235.3
157.5°	192.9	197.9	208.3	224.1	228.8
160°	196.1	200.1	208.3	221.9	224.5
162.5°	199.4	202.3	208.3	219.7	222.4
165°	202.9	205.5	208.3	216.5	219.1
167.5°	206.1	207.4	209.6	215.1	216.1
170°	208.3	209.6	209.6	215.1	215.1
172.5°	209.4	209.6	209.6	213.9	212.9
175°	211.0	211.0	209.6	212.3	212.3
177.5°	211.0	211.0	209.9	212.1	211.0
180°	211.0	211.0	211.0	211.0	211.0

(END OF REPORT)