

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: P563912

Luminaire Tested: **SQ4-PR1-025U-100D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563912  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-025U-100D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

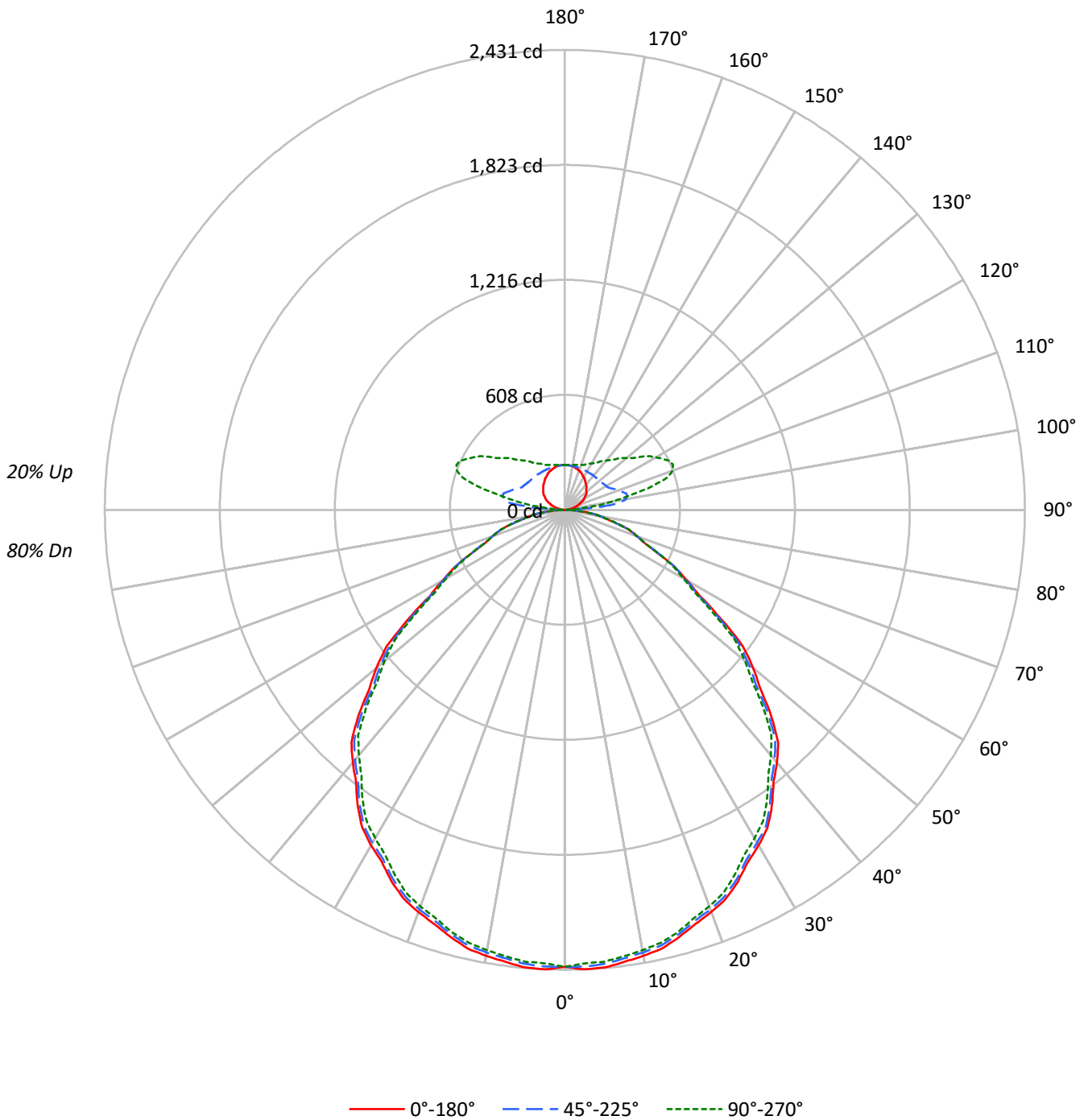
Lumens per Lamp: N/A  
Luminaire Lumens: 7578.2 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

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	101	97	93	100	96	93	90	88	86	83	81	79	77	74	73	71	68
2	96	88	82	77	92	85	79	74	78	74	70	72	68	65	66	63	61	58
3	88	78	71	65	84	75	68	63	69	64	59	64	59	56	59	55	52	49
4	81	70	61	55	77	67	60	54	62	56	51	57	52	48	53	49	45	43
5	74	62	54	48	71	60	52	47	56	49	44	52	46	42	48	43	40	37
6	69	56	48	42	66	54	47	41	50	44	39	47	41	37	44	39	35	33
7	64	51	43	37	61	49	42	36	46	39	35	43	37	33	40	35	31	29
8	59	47	39	33	57	45	38	32	42	36	31	39	34	30	37	32	28	26
9	55	43	35	30	53	41	34	29	39	32	28	36	31	27	34	29	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	31	27	23	21

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

	0°	45°	90°
0°	11145	11145	11145
5°	11246	11159	11101
10°	11210	11132	11073
15°	11161	11091	11031
20°	11105	11033	10951
25°	11026	10952	10825
30°	10907	10830	10674
35°	10746	10653	10500
40°	10501	10389	10201
45°	10074	9897	9693
50°	9319	9095	8916
55°	8134	7949	7782
60°	6854	6797	6662
65°	5928	5951	5905
70°	5445	5473	5473
75°	5229	5229	5267
80°	4920	4976	4920
85°	3964	4404	4404



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.5	3.0
10°-20°	653.7	8.6
20°-30°	985.9	13.0
30°-40°	1174.7	15.5
40°-50°	1158.2	15.3
50°-60°	885.1	11.7
60°-70°	547.8	7.2
70°-80°	311.1	4.1
80°-90°	95.9	1.3
90°-100°	115.6	1.5
100°-110°	303.9	4.0
110°-120°	315.1	4.2
120°-130°	252.8	3.3
130°-140°	198.3	2.6
140°-150°	152.2	2.0
150°-160°	109.6	1.4
160°-170°	67.1	0.9
170°-180°	22.7	0.3
0°-30°	1868.1	24.7
0°-40°	3042.8	40.2
0°-60°	5086.1	67.1
0°-90°	6040.9	79.7
90°-120°	734.6	9.7
90°-150°	1337.9	17.7
90°-180°	1537.0	20.3
0°-180°	7578.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2416	2416	2416	2416	2416	
5°	2428	2402	2410	2401	2397	230
15°	2337	2312	2322	2314	2310	659
25°	2166	2140	2152	2129	2127	997
35°	1908	1886	1892	1867	1864	1191
45°	1544	1524	1517	1490	1486	1183
55°	1011	995	988	972	968	906
65°	543	539	545	541	541	550
75°	293	293	293	296	296	310
85°	75	79	83	83	83	87
90°	2	4	12	6	6	4
95°	15	60	199	103	70	17
105°	55	83	336	510	476	58
115°	97	118	269	537	613	96
125°	135	152	245	414	488	120
135°	161	178	237	334	379	125
145°	187	199	234	285	307	117
155°	211	217	234	257	264	97
165°	228	231	234	243	246	64
175°	237	237	236	239	239	23
180°	237	237	237	237	237	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2416.0	2416.0	2416.0	2416.0	2416.0
2.5°	2430.9	2409.8	2416.0	2410.7	2399.3
5°	2428.5	2402.0	2409.7	2401.3	2397.2
7.5°	2409.7	2383.7	2391.4	2383.0	2380.6
10°	2393.1	2368.7	2376.4	2368.0	2363.9
12.5°	2374.8	2348.7	2358.1	2348.0	2344.0
15°	2336.9	2312.5	2322.3	2313.9	2309.8
17.5°	2295.3	2269.2	2279.0	2269.3	2264.1
20°	2262.0	2237.6	2247.4	2232.8	2230.8
22.5°	2225.4	2200.9	2210.8	2191.2	2190.8
25°	2166.3	2139.8	2151.7	2128.8	2126.7
27.5°	2095.9	2071.5	2081.4	2058.0	2055.5
30°	2047.6	2023.2	2033.1	2008.0	2003.9
32.5°	1992.7	1969.9	1978.1	1953.1	1950.7
35°	1908.2	1885.8	1891.6	1866.6	1864.5
37.5°	1812.1	1791.7	1795.0	1767.5	1765.5
40°	1743.8	1723.5	1725.1	1695.9	1693.9
42.5°	1668.9	1648.6	1646.9	1617.7	1615.6
45°	1544.1	1523.7	1517.0	1489.9	1485.8
47.5°	1401.7	1381.4	1368.8	1346.7	1343.9
50°	1298.5	1278.2	1267.3	1248.4	1242.3
52.5°	1187.0	1166.6	1157.4	1140.2	1134.1
55°	1011.3	995.1	988.4	971.7	967.6
57.5°	844.4	833.5	831.5	815.3	813.6
60°	742.9	736.8	736.7	722.1	722.1
62.5°	656.3	651.9	655.1	645.5	643.8
65°	543.1	539.1	545.2	541.0	541.0
67.5°	453.6	453.6	457.4	455.7	455.7
70°	403.7	403.7	405.8	405.8	405.8
72.5°	358.8	357.1	362.5	362.5	360.8
75°	293.4	293.4	293.4	295.5	295.5
77.5°	228.5	228.9	230.6	230.1	228.5
80°	185.2	187.2	187.3	185.2	185.2
82.5°	141.9	144.0	144.0	143.5	141.9
85°	74.9	79.0	83.2	83.2	83.2
87.5°	21.9	29.1	35.7	34.5	32.8
90°	1.5	4.5	12.2	6.1	6.1
92.5°	6.4	30.8	68.1	30.2	19.5
95°	15.2	59.8	199.2	102.6	69.9
97.5°	26.5	65.7	298.0	237.0	174.5
100°	35.0	70.6	328.4	332.8	258.5
102.5°	42.3	75.6	336.9	414.5	350.9
105°	54.7	83.0	336.0	510.1	475.9
107.5°	67.5	93.7	316.8	559.7	568.0
110°	76.0	99.8	301.0	572.5	608.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	84.5	107.1	286.4	564.4	619.1
115°	97.3	118.1	269.1	536.9	612.7
117.5°	109.8	128.8	257.2	498.8	582.9
120°	117.1	134.9	252.4	473.2	554.9
122.5°	124.4	142.2	248.7	447.6	528.2
125°	135.3	151.7	244.8	413.7	488.0
127.5°	144.1	160.8	241.4	386.4	449.1
130°	149.0	166.8	240.2	369.2	427.2
132.5°	153.9	171.7	239.0	354.5	406.5
135°	161.2	177.5	237.2	334.0	378.6
137.5°	168.8	184.8	236.9	318.6	355.2
140°	174.8	189.7	235.7	306.4	340.6
142.5°	179.7	193.4	235.7	297.7	327.2
145°	187.0	198.9	234.1	284.8	307.1
147.5°	194.3	205.9	234.1	274.1	292.5
150°	199.2	209.6	234.1	267.9	282.8
152.5°	204.0	212.1	234.1	263.0	274.3
155°	211.3	217.3	234.1	257.1	264.5
157.5°	216.8	222.5	234.1	251.9	257.2
160°	220.5	224.9	234.1	249.4	252.4
162.5°	224.1	227.4	234.1	247.0	249.9
165°	228.1	231.0	234.1	243.3	246.3
167.5°	231.7	233.2	235.7	241.8	243.0
170°	234.1	235.6	235.7	241.7	241.7
172.5°	235.3	235.6	235.7	240.5	239.3
175°	237.2	237.2	235.7	238.7	238.7
177.5°	237.2	237.2	236.0	238.4	237.2
180°	237.2	237.2	237.2	237.2	237.2

(END OF REPORT)