

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: P563876

Luminaire Tested: **SQ4-PR1-025U-075D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563876  
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-075D-830-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

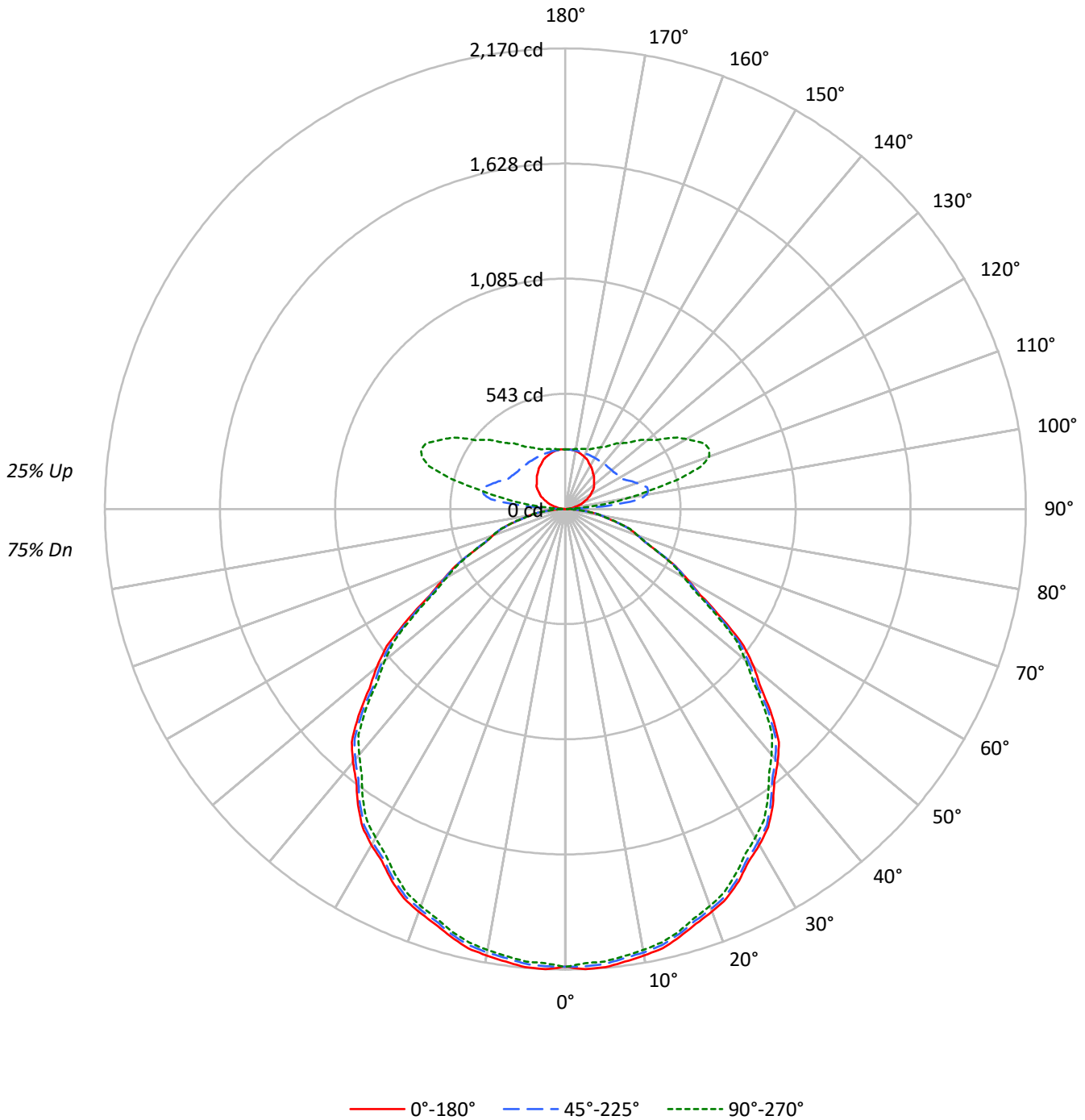
Lumens per Lamp: N/A  
Luminaire Lumens: 7216.6 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 64.9  
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	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75
1	104	99	96	92	99	95	91	88	86	83	81	78	76	74	70	69	67	64
2	95	87	81	76	90	83	78	73	76	71	68	69	65	62	62	60	58	54
3	87	77	70	64	82	74	67	62	67	62	57	61	57	53	56	52	49	46
4	80	69	61	54	76	66	58	53	60	54	49	55	50	46	50	46	43	40
5	73	62	53	47	70	59	51	46	54	48	43	50	44	40	45	41	38	35
6	68	55	47	41	64	53	46	40	49	43	38	45	40	35	41	37	33	31
7	63	50	42	36	60	48	41	35	45	38	33	41	36	32	38	33	30	27
8	58	46	38	32	56	44	37	32	41	34	30	38	32	28	35	30	27	25
9	55	42	34	29	52	40	33	28	37	31	27	35	29	26	32	27	24	22
10	51	39	31	26	49	37	30	26	35	29	24	32	27	23	30	25	22	20

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

	0°	45°	90°
0°	9950	9950	9950
5°	10039	9962	9910
10°	10007	9938	9885
15°	9963	9901	9848
20°	9913	9849	9776
25°	9844	9777	9664
30°	9737	9668	9530
35°	9593	9509	9374
40°	9374	9274	9106
45°	8993	8835	8653
50°	8319	8119	7959
55°	7261	7097	6947
60°	6119	6067	5947
65°	5293	5313	5272
70°	4861	4887	4887
75°	4668	4668	4702
80°	4391	4442	4391
85°	3541	3933	3933



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.0	2.8
10°-20°	583.5	8.1
20°-30°	880.2	12.2
30°-40°	1048.7	14.5
40°-50°	1033.9	14.3
50°-60°	790.2	10.9
60°-70°	489.0	6.8
70°-80°	277.7	3.8
80°-90°	86.0	1.2
90°-100°	137.1	1.9
100°-110°	360.4	5.0
110°-120°	373.8	5.2
120°-130°	299.8	4.2
130°-140°	235.2	3.3
140°-150°	180.5	2.5
150°-160°	130.0	1.8
160°-170°	79.6	1.1
170°-180°	26.9	0.4
0°-30°	1667.7	23.1
0°-40°	2716.4	37.6
0°-60°	4540.5	62.9
0°-90°	5393.2	74.7
90°-120°	871.3	12.1
90°-150°	1586.9	22.0
90°-180°	1823.0	25.3
0°-180°	7216.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2157	2157	2157	2157	2157	
5°	2168	2144	2151	2144	2140	206
15°	2086	2064	2073	2066	2062	589
25°	1934	1910	1921	1900	1899	890
35°	1704	1684	1689	1666	1664	1063
45°	1378	1360	1354	1330	1326	1056
55°	903	888	882	868	864	809
65°	485	481	487	483	483	491
75°	262	262	262	264	264	277
85°	67	70	74	74	74	78
90°	2	5	14	7	7	4
95°	18	71	236	122	83	20
105°	65	98	398	605	564	69
115°	115	140	319	637	727	114
125°	160	180	290	491	579	142
135°	191	211	281	396	449	148
145°	222	236	278	338	364	139
155°	251	258	278	305	314	115
165°	270	274	278	289	292	76
175°	281	281	280	283	283	27
180°	281	281	281	281	281	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2156.8	2156.8	2156.8	2156.8	2156.8
2.5°	2170.2	2151.3	2156.8	2152.1	2141.9
5°	2167.9	2144.3	2151.2	2143.7	2140.1
7.5°	2151.2	2128.0	2134.9	2127.4	2125.2
10°	2136.3	2114.6	2121.5	2114.0	2110.3
12.5°	2120.0	2096.7	2105.1	2096.1	2092.5
15°	2086.2	2064.4	2073.2	2065.7	2062.0
17.5°	2049.0	2025.8	2034.5	2025.9	2021.2
20°	2019.3	1997.5	2006.3	1993.3	1991.4
22.5°	1986.6	1964.8	1973.6	1956.1	1955.8
25°	1933.9	1910.2	1920.9	1900.4	1898.6
27.5°	1871.1	1849.3	1858.1	1837.2	1835.0
30°	1828.0	1806.2	1815.0	1792.6	1789.0
32.5°	1778.9	1758.6	1765.9	1743.6	1741.4
35°	1703.5	1683.5	1688.6	1666.3	1664.5
37.5°	1617.7	1599.5	1602.4	1577.9	1576.1
40°	1556.7	1538.6	1540.0	1514.0	1512.2
42.5°	1489.9	1471.7	1470.2	1444.1	1442.3
45°	1378.4	1360.2	1354.3	1330.0	1326.4
47.5°	1251.3	1233.2	1222.0	1202.2	1199.7
50°	1159.2	1141.0	1131.3	1114.5	1109.0
52.5°	1059.6	1041.5	1033.2	1017.9	1012.4
55°	902.8	888.3	882.4	867.5	863.8
57.5°	753.9	744.0	742.3	727.8	726.4
60°	663.2	657.7	657.6	644.6	644.6
62.5°	585.9	581.9	584.8	576.2	574.8
65°	484.9	481.2	486.7	483.0	483.0
67.5°	405.0	405.0	408.3	406.8	406.8
70°	360.4	360.4	362.3	362.3	362.3
72.5°	320.3	318.8	323.6	323.6	322.1
75°	261.9	261.9	261.9	263.8	263.8
77.5°	204.0	204.3	205.8	205.4	204.0
80°	165.3	167.2	167.2	165.3	165.3
82.5°	126.7	128.5	128.6	128.1	126.7
85°	66.9	70.5	74.3	74.3	74.3
87.5°	19.7	26.2	32.6	31.1	29.7
90°	1.8	5.3	14.4	7.2	7.2
92.5°	7.6	36.5	80.8	35.8	23.1
95°	18.0	70.9	236.2	121.7	83.0
97.5°	31.4	77.9	353.5	281.1	207.0
100°	41.5	83.8	389.5	394.7	306.6
102.5°	50.1	89.6	399.6	491.7	416.2
105°	64.9	98.4	398.5	605.0	564.5
107.5°	80.1	111.1	375.8	663.9	673.7
110°	90.2	118.4	357.1	679.0	721.4



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CATALOG NUMBER: SQ4-PR1-025U-075D-830-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	100.3	127.1	339.8	669.4	734.3
115°	115.4	140.1	319.2	636.8	726.8
117.5°	130.2	152.8	305.1	591.6	691.4
120°	138.9	160.0	299.4	561.3	658.2
122.5°	147.5	168.7	295.0	530.9	626.5
125°	160.5	179.9	290.3	490.7	578.9
127.5°	171.0	190.7	286.4	458.3	532.7
130°	176.7	197.9	284.9	438.0	506.7
132.5°	182.5	203.7	283.5	420.5	482.2
135°	191.2	210.6	281.3	396.1	449.0
137.5°	200.2	219.2	281.0	377.9	421.3
140°	207.4	225.0	279.5	363.4	404.0
142.5°	213.2	229.4	279.5	353.2	388.1
145°	221.8	235.9	277.7	337.8	364.3
147.5°	230.5	244.2	277.7	325.1	347.0
150°	236.2	248.6	277.7	317.8	335.4
152.5°	242.0	251.5	277.7	311.9	325.3
155°	250.7	257.7	277.7	305.0	313.8
157.5°	257.2	263.9	277.7	298.8	305.1
160°	261.5	266.8	277.7	295.8	299.4
162.5°	265.8	269.7	277.7	292.9	296.5
165°	270.5	274.0	277.7	288.6	292.1
167.5°	274.8	276.6	279.5	286.8	288.2
170°	277.7	279.5	279.5	286.7	286.7
172.5°	279.2	279.5	279.5	285.3	283.9
175°	281.3	281.3	279.5	283.1	283.1
177.5°	281.3	281.3	279.9	282.7	281.3
180°	281.3	281.3	281.3	281.3	281.3

(END OF REPORT)