

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: P564577

Luminaire Tested: **SQ4-PW1-025U-100D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564577
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-025U-100D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14370.8 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

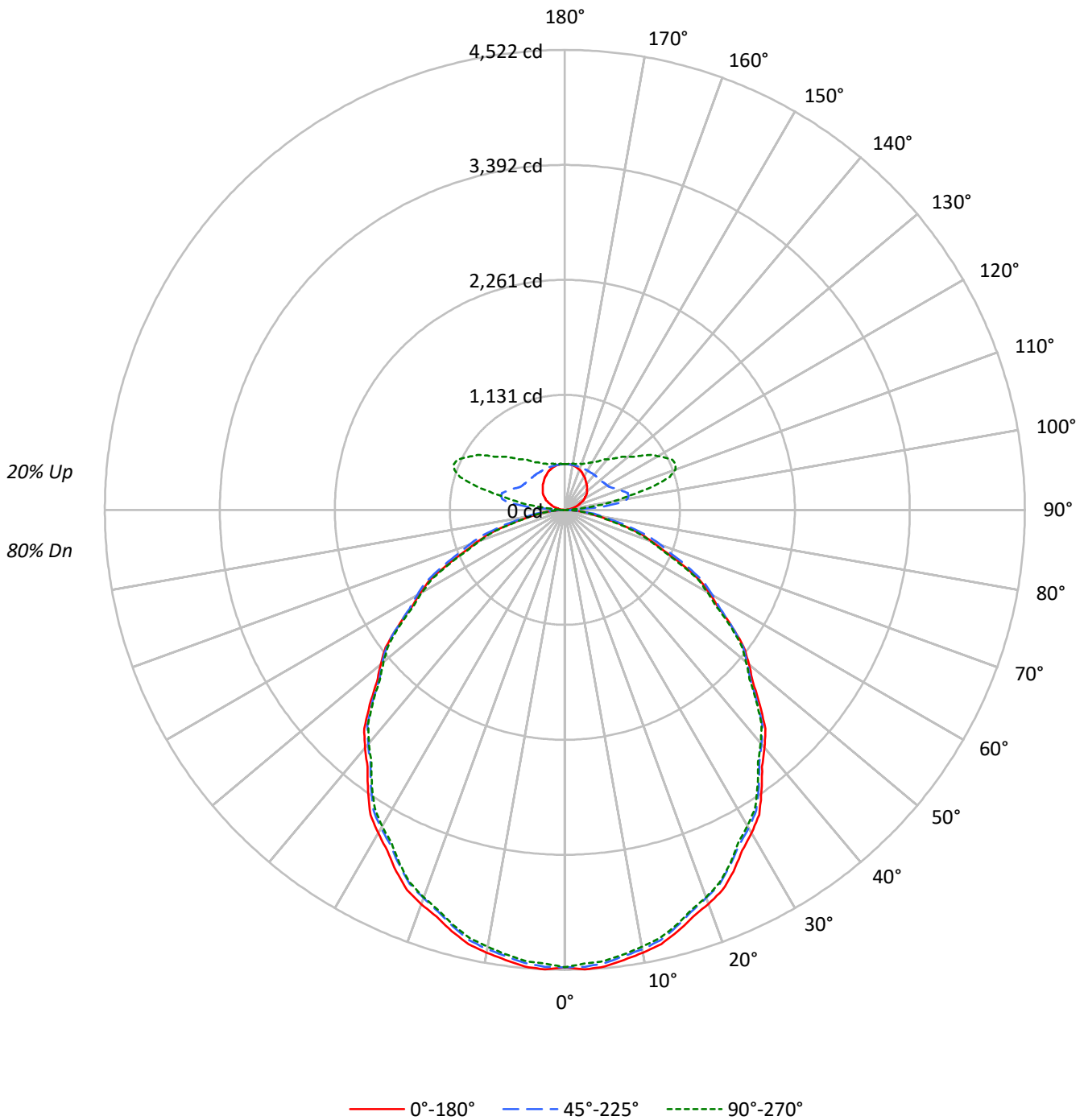
Input Watts (W): 123.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	92	89	88	85	83	81	79	77	74	72	71	67				
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60	57				
3	87	77	70	63	83	74	67	62	68	63	58	63	58	54	58	54	51	48				
4	80	69	60	54	76	66	58	52	61	55	50	56	51	47	52	48	44	41				
5	73	61	53	46	70	59	51	45	55	48	43	51	45	41	47	42	38	36				
6	68	55	47	41	65	53	45	40	49	43	38	46	40	36	42	38	34	32				
7	63	50	42	36	60	48	40	35	45	38	33	42	36	32	39	34	30	28				
8	58	46	37	32	56	44	36	31	41	35	30	38	33	28	36	31	27	25				
9	55	42	34	29	52	40	33	28	38	31	27	35	30	26	33	28	25	23				
10	51	39	31	26	49	37	30	25	35	29	24	33	27	23	31	26	22	21				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13830	13830	13830
5°	13919	13809	13748
10°	13808	13697	13622
15°	13662	13511	13460
20°	13499	13291	13265
25°	13310	13068	13028
30°	13029	12832	12747
35°	12659	12480	12406
40°	12264	12073	12025
45°	11787	11632	11580
50°	11298	11203	11127
55°	10771	10771	10601
60°	10114	10308	9943
65°	9255	9716	9024
70°	8158	8942	7944
75°	6968	8003	6779
80°	5403	6737	5473
85°	3497	5173	4612



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.5	2.9
10°-20°	1195.5	8.3
20°-30°	1773.4	12.3
30°-40°	2075.0	14.4
40°-50°	2065.8	14.4
50°-60°	1783.9	12.4
60°-70°	1284.1	8.9
70°-80°	673.4	4.7
80°-90°	169.4	1.2
90°-100°	220.1	1.5
100°-110°	578.6	4.0
110°-120°	600.0	4.2
120°-130°	481.3	3.3
130°-140°	377.6	2.6
140°-150°	289.8	2.0
150°-160°	208.7	1.5
160°-170°	127.7	0.9
170°-180°	43.1	0.3
0°-30°	3392.4	23.6
0°-40°	5467.4	38.0
0°-60°	9317.0	64.8
0°-90°	11443.8	79.6
90°-120°	1398.7	9.7
90°-150°	2547.3	17.7
90°-180°	2927.0	20.4
0°-180°	14370.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4497	4497	4497	4497	4497	
5°	4509	4458	4473	4461	4453	427
15°	4291	4237	4243	4235	4228	1209
25°	3922	3857	3851	3828	3839	1804
35°	3372	3325	3324	3293	3304	2108
45°	2710	2687	2674	2666	2662	2091
55°	2009	2005	2009	1981	1977	1792
65°	1272	1311	1335	1283	1240	1260
75°	586	641	674	629	570	629
85°	99	130	147	138	131	131
90°	3	9	23	12	12	6
95°	29	114	379	195	133	32
105°	104	158	640	971	906	110
115°	185	225	512	1022	1167	183
125°	258	289	466	788	929	229
135°	307	338	452	636	721	237
145°	356	379	446	542	585	223
155°	402	414	446	490	504	185
165°	434	440	446	463	469	123
175°	452	452	449	454	454	43
180°	452	452	452	452	452	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4496.9	4496.9	4496.9	4496.9	4496.9
2.5°	4522.3	4485.1	4496.9	4486.9	4465.2
5°	4508.8	4458.5	4473.2	4461.1	4453.3
7.5°	4462.9	4416.4	4427.2	4414.4	4409.8
10°	4421.7	4375.2	4386.0	4370.0	4362.2
12.5°	4374.1	4324.5	4335.3	4319.3	4314.7
15°	4290.9	4236.7	4243.4	4235.3	4227.5
17.5°	4194.2	4139.2	4140.3	4127.6	4126.1
20°	4124.5	4066.4	4061.1	4045.4	4053.2
22.5°	4048.4	3987.2	3981.9	3959.9	3970.8
25°	3922.4	3856.6	3851.1	3827.6	3839.2
27.5°	3776.6	3711.5	3711.7	3678.7	3691.0
30°	3668.9	3606.9	3613.4	3574.1	3589.6
32.5°	3554.8	3499.0	3502.5	3463.2	3478.7
35°	3371.7	3325.2	3324.2	3292.7	3304.4
37.5°	3184.7	3143.6	3137.2	3119.0	3122.1
40°	3054.7	3019.9	3007.2	2995.3	2995.3
42.5°	2918.4	2886.7	2874.1	2865.3	2862.2
45°	2710.0	2686.8	2674.4	2666.4	2662.5
47.5°	2504.0	2482.3	2471.5	2465.9	2462.0
50°	2361.4	2345.9	2341.6	2329.6	2325.7
52.5°	2218.7	2209.5	2205.3	2190.1	2186.3
55°	2008.8	2004.9	2008.8	1980.9	1977.1
57.5°	1790.1	1796.3	1809.1	1771.6	1762.3
60°	1644.3	1659.7	1675.9	1632.0	1616.5
62.5°	1495.3	1520.1	1542.8	1492.4	1470.7
65°	1271.8	1310.6	1335.2	1282.7	1240.1
67.5°	1056.3	1104.3	1133.9	1077.4	1029.3
70°	907.3	961.5	994.5	937.8	883.5
72.5°	777.4	837.8	864.5	811.0	756.8
75°	586.4	640.6	673.5	628.6	570.5
77.5°	416.0	467.2	494.5	455.3	407.3
80°	305.1	359.3	380.4	347.8	309.0
82.5°	216.3	261.3	275.8	256.1	229.8
85°	99.1	130.0	146.6	138.5	130.7
87.5°	25.9	48.8	64.9	62.6	65.7
90°	2.9	8.6	23.2	11.6	11.6
92.5°	12.2	58.6	129.7	57.4	37.1
95°	28.9	113.9	379.2	195.4	133.2
97.5°	50.4	125.1	567.4	451.2	332.3
100°	66.6	134.5	625.3	633.6	492.1
102.5°	80.5	143.9	641.5	789.2	668.1
105°	104.2	158.0	639.7	971.1	906.0
107.5°	128.5	178.3	603.3	1065.6	1081.5
110°	144.7	190.0	573.2	1090.0	1157.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	160.9	204.0	545.4	1074.6	1178.7
115°	185.3	224.9	512.4	1022.2	1166.6
117.5°	209.0	245.2	489.8	949.6	1109.8
120°	222.9	256.9	480.5	900.9	1056.6
122.5°	236.8	270.8	473.6	852.2	1005.6
125°	257.6	288.8	466.0	787.7	929.2
127.5°	274.4	306.1	459.7	735.7	855.1
130°	283.7	317.6	457.4	703.0	813.4
132.5°	292.9	326.9	455.0	675.0	774.0
135°	306.8	338.0	451.6	635.9	720.8
137.5°	321.3	351.9	451.0	606.6	676.2
140°	332.9	361.2	448.7	583.3	648.4
142.5°	342.2	368.2	448.7	566.9	622.9
145°	356.0	378.7	445.8	542.3	584.7
147.5°	369.9	392.0	445.8	521.8	556.9
150°	379.2	399.0	445.8	510.1	538.4
152.5°	388.5	403.8	445.8	500.7	522.2
155°	402.4	413.7	445.8	489.5	503.7
157.5°	412.8	423.5	445.8	479.6	489.8
160°	419.7	428.2	445.8	474.9	480.5
162.5°	426.7	432.9	445.8	470.2	475.9
165°	434.2	439.9	445.8	463.3	468.9
167.5°	441.2	444.0	448.7	460.3	462.6
170°	445.8	448.6	448.7	460.3	460.3
172.5°	448.1	448.7	448.7	457.9	455.6
175°	451.6	451.6	448.7	454.5	454.5
177.5°	451.6	451.6	449.3	453.8	451.6
180°	451.6	451.6	451.6	451.6	451.6

(END OF REPORT)