

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: P564553

Luminaire Tested: **SQ4-PW1-025U-075D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564553
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-075D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 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: 11540.3 lumens
Efficiency: N/A
Efficacy: 121.7 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

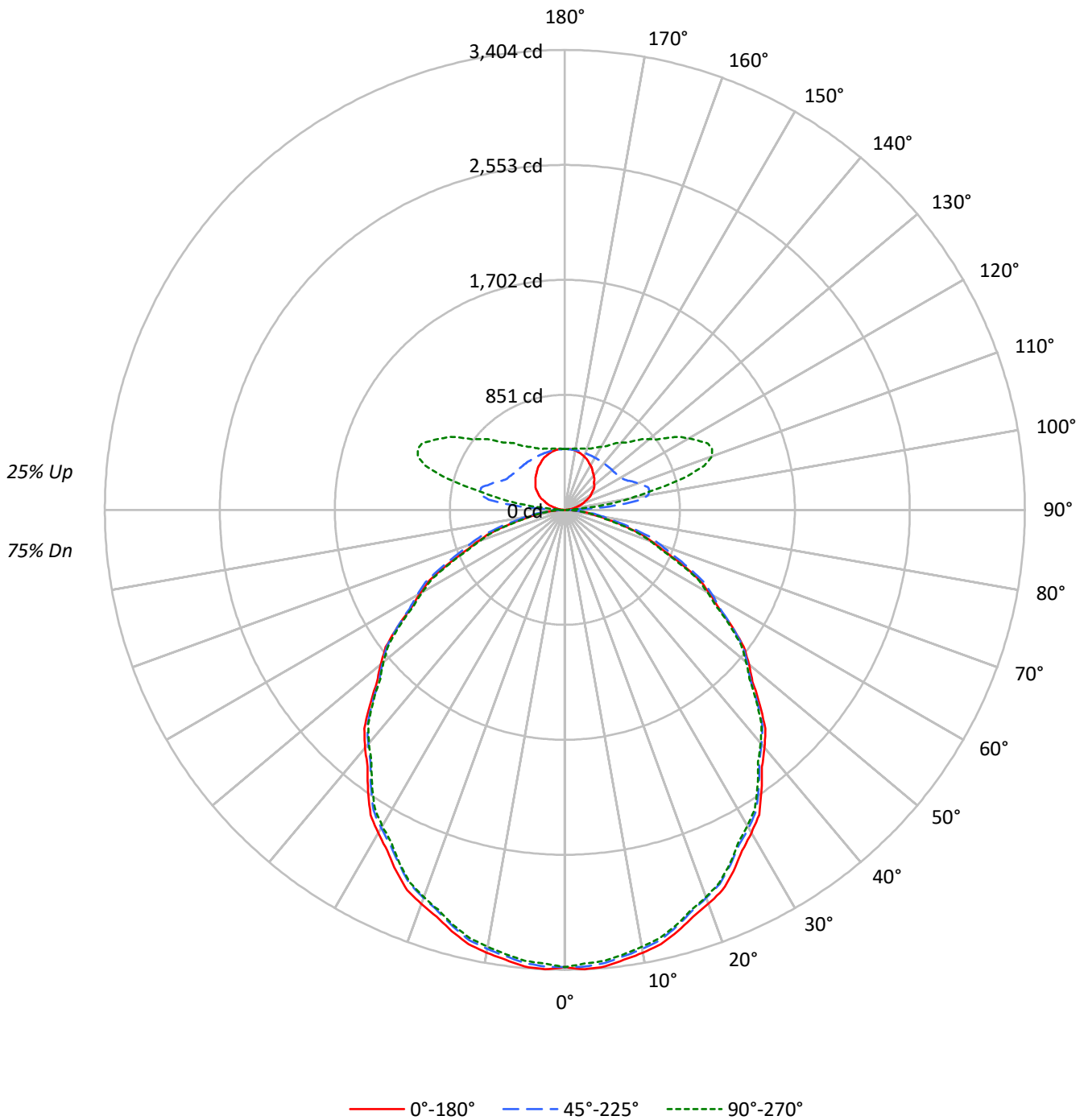
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	75				
1	103	99	95	91	98	94	91	88	86	83	80	77	75	73	70	68	67	63				
2	94	87	80	75	89	83	77	72	75	71	67	68	65	62	62	59	57	53				
3	86	76	69	63	82	73	66	60	66	61	56	60	56	52	55	51	48	45				
4	79	68	59	53	75	65	57	51	59	53	48	54	49	45	49	45	42	39				
5	73	61	52	46	69	58	50	44	53	47	42	48	43	39	44	40	36	34				
6	67	54	46	40	64	52	44	39	48	41	37	44	38	34	40	36	32	30				
7	62	49	41	35	59	47	40	34	44	37	32	40	35	30	37	32	29	26				
8	58	45	37	31	55	43	36	31	40	33	29	37	31	27	34	29	26	23				
9	54	41	33	28	51	40	32	27	37	30	26	34	28	25	31	27	23	21				
10	50	38	30	25	48	37	30	25	34	28	24	31	26	22	29	24	21	19				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10409	10409	10409
5°	10476	10393	10347
10°	10392	10309	10253
15°	10282	10168	10130
20°	10159	10003	9984
25°	10017	9835	9805
30°	9805	9657	9594
35°	9527	9393	9337
40°	9230	9086	9050
45°	8871	8754	8715
50°	8503	8432	8375
55°	8106	8106	7978
60°	7612	7758	7483
65°	6966	7313	6792
70°	6141	6730	5980
75°	5244	6023	5102
80°	4066	5071	4119
85°	2629	3892	3472



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.7	2.8
10°-20°	899.8	7.8
20°-30°	1334.7	11.6
30°-40°	1561.7	13.5
40°-50°	1554.7	13.5
50°-60°	1342.6	11.6
60°-70°	966.4	8.4
70°-80°	506.8	4.4
80°-90°	128.1	1.1
90°-100°	220.1	1.9
100°-110°	578.6	5.0
110°-120°	600.0	5.2
120°-130°	481.3	4.2
130°-140°	377.6	3.3
140°-150°	289.8	2.5
150°-160°	208.7	1.8
160°-170°	127.7	1.1
170°-180°	43.1	0.4
0°-30°	2553.1	22.1
0°-40°	4114.8	35.7
0°-60°	7012.1	60.8
0°-90°	8613.3	74.6
90°-120°	1398.7	12.1
90°-150°	2547.3	22.1
90°-180°	2927.0	25.4
0°-180°	11540.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3384	3384	3384	3384	3384	
5°	3393	3356	3367	3358	3352	321
15°	3229	3189	3194	3188	3182	910
25°	2952	2902	2898	2881	2890	1357
35°	2538	2503	2502	2478	2487	1586
45°	2040	2022	2013	2007	2004	1574
55°	1512	1509	1512	1491	1488	1349
65°	957	986	1005	965	933	949
75°	441	482	507	473	429	473
85°	74	98	110	104	98	98
90°	3	9	23	12	12	5
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°	3384.5	3384.5	3384.5	3384.5	3384.5
2.5°	3403.5	3375.5	3384.5	3376.9	3360.6
5°	3393.4	3355.5	3366.6	3357.5	3351.7
7.5°	3358.8	3323.8	3332.0	3322.3	3318.8
10°	3327.8	3292.8	3301.0	3288.9	3283.1
12.5°	3292.0	3254.7	3262.8	3250.8	3247.3
15°	3229.4	3188.6	3193.6	3187.5	3181.7
17.5°	3156.6	3115.2	3116.1	3106.5	3105.3
20°	3104.2	3060.4	3056.4	3044.6	3050.5
22.5°	3046.9	3000.8	2996.8	2980.3	2988.5
25°	2952.1	2902.5	2898.4	2880.7	2889.5
27.5°	2842.3	2793.4	2793.4	2768.6	2777.9
30°	2761.2	2714.6	2719.5	2689.9	2701.6
32.5°	2675.4	2633.4	2636.0	2606.4	2618.1
35°	2537.6	2502.6	2501.8	2478.2	2486.9
37.5°	2396.8	2365.9	2361.1	2347.4	2349.7
40°	2299.0	2272.8	2263.3	2254.3	2254.3
42.5°	2196.5	2172.6	2163.1	2156.5	2154.1
45°	2039.6	2022.1	2012.8	2006.7	2003.8
47.5°	1884.6	1868.2	1860.1	1855.9	1852.9
50°	1777.2	1765.5	1762.3	1753.3	1750.4
52.5°	1669.9	1662.9	1659.7	1648.3	1645.4
55°	1511.8	1508.9	1511.8	1490.9	1488.0
57.5°	1347.2	1351.9	1361.5	1333.3	1326.3
60°	1237.5	1249.1	1261.3	1228.3	1216.6
62.5°	1125.4	1144.0	1161.2	1123.2	1106.9
65°	957.2	986.3	1004.9	965.4	933.3
67.5°	795.0	831.1	853.4	810.9	774.7
70°	682.9	723.7	748.5	705.8	665.0
72.5°	585.0	630.5	650.6	610.4	569.5
75°	441.3	482.1	506.9	473.1	429.4
77.5°	313.1	351.6	372.1	342.7	306.5
80°	229.6	270.4	286.3	261.7	232.6
82.5°	162.8	196.6	207.5	192.8	172.9
85°	74.5	97.9	110.3	104.2	98.4
87.5°	19.7	37.1	50.0	47.7	50.0
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°	<i>160.9</i>	204.0	545.4	1074.6	1178.7
115°	<i>185.3</i>	224.9	512.4	1022.2	1166.6
117.5°	<i>209.0</i>	245.2	489.8	949.6	1109.8
120°	<i>222.9</i>	256.9	480.5	900.9	1056.6
122.5°	<i>236.8</i>	270.8	473.6	852.2	1005.6
125°	<i>257.6</i>	288.8	466.0	787.7	929.2
127.5°	<i>274.4</i>	306.1	459.7	735.7	855.1
130°	<i>283.7</i>	317.6	457.4	703.0	813.4
132.5°	<i>292.9</i>	326.9	455.0	675.0	774.0
135°	<i>306.8</i>	338.0	451.6	635.9	720.8
137.5°	<i>321.3</i>	351.9	451.0	606.6	676.2
140°	<i>332.9</i>	361.2	448.7	583.3	648.4
142.5°	<i>342.2</i>	368.2	448.7	566.9	622.9
145°	<i>356.0</i>	378.7	445.8	542.3	584.7
147.5°	<i>369.9</i>	392.0	445.8	521.8	556.9
150°	<i>379.2</i>	399.0	445.8	510.1	538.4
152.5°	<i>388.5</i>	403.8	445.8	500.7	522.2
155°	<i>402.4</i>	413.7	445.8	489.5	503.7
157.5°	<i>412.8</i>	423.5	445.8	479.6	489.8
160°	<i>419.7</i>	428.2	445.8	474.9	480.5
162.5°	<i>426.7</i>	432.9	445.8	470.2	475.9
165°	<i>434.2</i>	439.9	445.8	463.3	468.9
167.5°	<i>441.2</i>	444.0	448.7	460.3	462.6
170°	<i>445.8</i>	448.6	448.7	460.3	460.3
172.5°	<i>448.1</i>	448.7	448.7	457.9	455.6
175°	<i>451.6</i>	451.6	448.7	454.5	454.5
177.5°	<i>451.6</i>	451.6	449.3	453.8	451.6
180°	<i>451.6</i>	451.6	451.6	451.6	451.6

(END OF REPORT)