

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: P563233

Luminaire Tested: **SQ4-PP3-025U-100D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563233  
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-100D-840-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

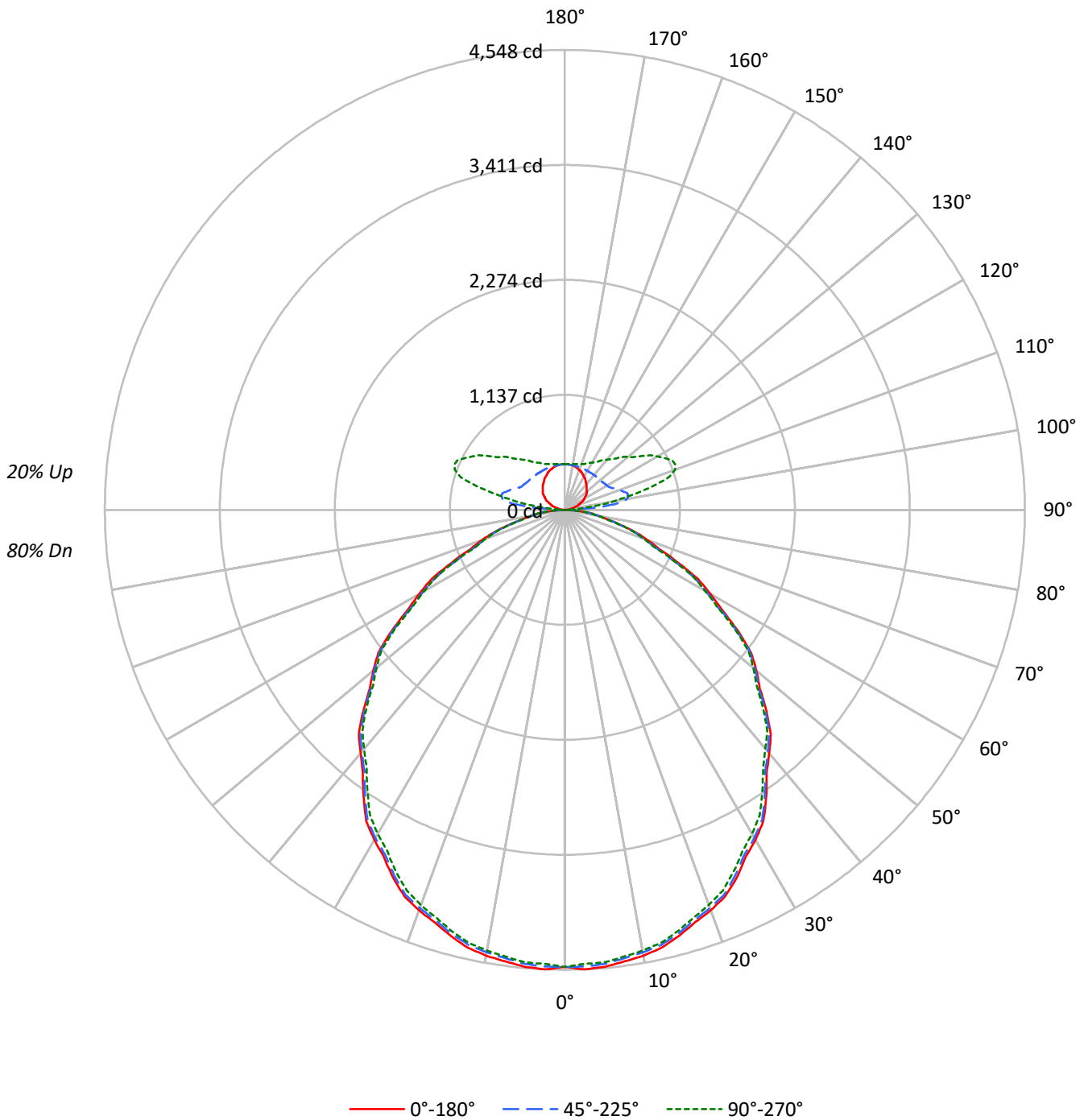
Lumens per Lamp: N/A  
Luminaire Lumens: 14497.1 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

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	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	93	90	88	86	83	81	79	77	74	73	71	68
2	96	88	82	76	91	85	79	74	78	73	69	72	68	65	66	63	60	57
3	88	78	70	64	83	75	68	62	69	63	59	64	59	55	59	55	52	49
4	80	69	61	55	76	66	59	53	61	55	50	57	52	47	52	48	45	42
5	74	62	53	47	70	59	52	46	55	49	44	51	46	41	47	43	39	37
6	68	56	47	41	65	54	46	40	50	43	38	46	41	36	43	38	35	32
7	63	50	42	36	60	49	41	35	45	39	34	42	37	32	39	34	31	29
8	59	46	38	32	56	44	37	32	41	35	30	39	33	29	36	31	28	26
9	55	42	34	29	52	41	33	28	38	32	27	36	30	26	33	29	25	23
10	51	39	31	26	49	38	30	26	35	29	25	33	28	24	31	26	23	21

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

	0°	45°	90°
0°	13900	13900	13900
5°	14002	13916	13867
10°	13978	13879	13817
15°	13886	13810	13734
20°	13793	13716	13612
25°	13630	13535	13401
30°	13377	13307	13138
35°	13027	12938	12775
40°	12611	12531	12388
45°	12266	12180	12060
50°	11826	11750	11636
55°	11214	11065	10980
60°	10208	9916	9868
65°	8994	8619	8590
70°	7764	7444	7444
75°	6684	6590	6495
80°	5892	5963	5823
85°	4612	5032	5032



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	427.4	2.9
10°-20°	1220.3	8.4
20°-30°	1827.8	12.6
30°-40°	2144.0	14.8
40°-50°	2150.7	14.8
50°-60°	1834.7	12.7
60°-70°	1196.5	8.3
70°-80°	600.3	4.1
80°-90°	168.6	1.2
90°-100°	220.1	1.5
100°-110°	578.6	4.0
110°-120°	600.0	4.1
120°-130°	481.3	3.3
130°-140°	377.6	2.6
140°-150°	289.8	2.0
150°-160°	208.7	1.4
160°-170°	127.7	0.9
170°-180°	43.1	0.3
0°-30°	3475.5	24.0
0°-40°	5619.5	38.8
0°-60°	9604.8	66.3
0°-90°	11570.2	79.8
90°-120°	1398.7	9.6
90°-150°	2547.3	17.6
90°-180°	2927.0	20.2
0°-180°	14497.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4520	4520	4520	4520	4520	
5°	4536	4493	4508	4492	4492	431
15°	4361	4319	4337	4321	4314	1230
25°	4017	3970	3989	3953	3949	1847
35°	3470	3435	3446	3406	3403	2168
45°	2820	2801	2800	2773	2773	2172
55°	2092	2084	2064	2052	2048	1859
65°	1236	1213	1184	1176	1180	1233
75°	562	562	555	550	547	610
85°	131	142	143	143	143	154
90°	3	9	23	12	12	7
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°	4519.6	4519.6	4519.6	4519.6	4519.6
2.5°	4548.1	4511.0	4519.6	4512.9	4494.3
5°	4535.5	4492.9	4507.7	4491.9	4491.9
7.5°	4504.6	4458.1	4472.9	4457.0	4456.3
10°	4476.1	4429.6	4444.4	4428.4	4424.6
12.5°	4434.9	4388.4	4406.3	4387.3	4386.5
15°	4361.2	4318.6	4337.4	4321.4	4313.7
17.5°	4278.0	4231.5	4254.2	4232.0	4228.9
20°	4214.6	4168.1	4190.9	4159.2	4159.2
22.5°	4138.6	4092.1	4118.0	4076.8	4076.8
25°	4016.6	3970.1	3988.8	3953.1	3949.2
27.5°	3871.6	3825.9	3845.4	3805.0	3804.3
30°	3767.0	3724.4	3747.2	3703.6	3699.7
32.5°	3652.9	3613.4	3630.0	3586.3	3582.4
35°	3469.9	3435.1	3446.2	3406.5	3402.6
37.5°	3277.4	3241.8	3254.4	3220.3	3218.8
40°	3141.2	3117.9	3121.4	3093.5	3085.7
42.5°	3014.4	2988.1	2991.4	2963.7	2962.1
45°	2820.3	2800.9	2800.5	2772.8	2772.8
47.5°	2614.3	2599.6	2595.3	2572.3	2571.6
50°	2471.7	2460.1	2455.9	2436.0	2432.1
52.5°	2322.8	2317.4	2303.8	2287.1	2286.4
55°	2091.5	2083.7	2063.7	2051.8	2047.9
57.5°	1840.3	1824.8	1802.3	1784.9	1788.0
60°	1659.7	1644.2	1612.2	1604.3	1604.3
62.5°	1485.4	1466.8	1434.7	1423.8	1430.0
65°	1235.9	1212.6	1184.4	1176.5	1180.4
67.5°	1009.3	988.4	957.8	957.7	954.6
70°	863.5	851.9	827.9	827.9	827.9
72.5°	733.6	728.2	710.6	710.6	707.5
75°	562.5	562.5	554.6	550.5	546.6
77.5°	421.5	423.0	419.1	415.0	408.0
80°	332.7	340.5	336.7	332.6	328.8
82.5°	250.3	258.1	257.5	250.3	249.6
85°	130.7	142.3	142.6	142.6	142.6
87.5°	35.4	49.0	55.3	53.1	56.2
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)