

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: P561623

Luminaire Tested: **SQ4-PC3-100U-050D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561623
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-100U-050D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

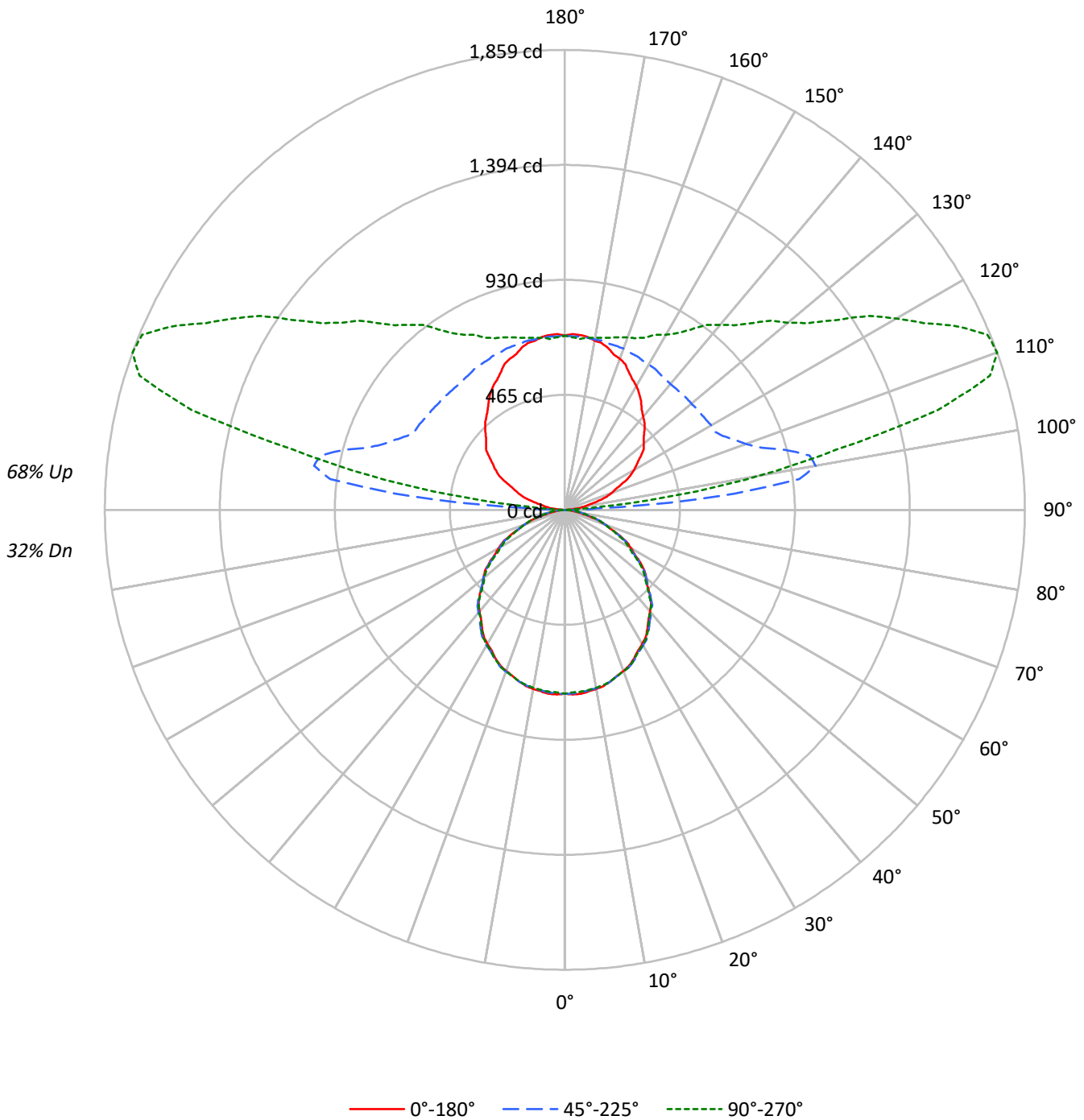
Lumens per Lamp: N/A
Luminaire Lumens: 6400.2 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 53.1
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	103	103	103	103	92	92	92	92	73	73	73	56	56	56	39	39	39	32
1	94	90	86	82	84	81	78	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	41	39	31	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	33	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	20	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16	12
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	10
9	48	36	28	23	43	32	26	22	26	21	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6855	6855	6855
5°	6906	6862	6836
10°	6890	6858	6838
15°	6853	6853	6847
20°	6808	6829	6829
25°	6744	6793	6772
30°	6662	6743	6713
35°	6563	6663	6617
40°	6454	6546	6480
45°	6337	6382	6283
50°	6172	6172	6073
55°	5976	5899	5810
60°	5687	5573	5484
65°	5257	5152	5106
70°	4602	4640	4621
75°	3704	4096	4121
80°	2630	3475	3507
85°	1598	2911	2911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	1.1
10°-20°	201.8	3.2
20°-30°	305.6	4.8
30°-40°	366.3	5.7
40°-50°	373.5	5.8
50°-60°	326.1	5.1
60°-70°	233.4	3.6
70°-80°	120.2	1.9
80°-90°	30.4	0.5
90°-100°	320.7	5.0
100°-110°	912.7	14.3
110°-120°	874.4	13.7
120°-130°	692.1	10.8
130°-140°	555.5	8.7
140°-150°	434.9	6.8
150°-160°	318.2	5.0
160°-170°	197.1	3.1
170°-180°	66.9	1.0
0°-30°	577.7	9.0
0°-40°	944.0	14.7
0°-60°	1643.6	25.7
0°-90°	2027.7	31.7
90°-120°	2107.9	32.9
90°-150°	3790.4	59.2
90°-180°	4373.0	68.3
0°-180°	6400.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	743	743	743	743	743	
5°	746	738	741	739	738	71
15°	718	712	718	718	717	202
25°	662	658	667	665	665	305
35°	583	581	592	588	588	364
45°	486	484	489	483	482	374
55°	372	367	367	361	361	331
65°	241	235	236	234	234	238
75°	104	109	115	116	116	112
85°	15	23	28	28	28	21
90°	0	0	0	0	0	2
95°	35	138	621	215	132	40
105°	142	215	930	1643	1562	150
115°	264	319	705	1494	1754	260
125°	372	413	673	1117	1336	333
135°	455	493	665	944	1067	351
145°	537	564	670	817	890	335
155°	613	627	686	738	768	283
165°	677	680	695	710	720	190
175°	709	705	703	698	693	67
180°	704	704	704	704	704	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.0	743.0	743.0	743.0	743.0
2.5°	747.4	740.9	743.0	741.3	738.6
5°	745.7	738.3	740.9	738.8	738.1
7.5°	740.3	732.9	736.4	735.0	734.3
10°	735.4	728.0	732.0	730.6	729.9
12.5°	728.8	721.9	726.5	725.1	724.9
15°	717.5	711.5	717.5	717.5	716.8
17.5°	703.3	697.8	704.3	704.7	704.3
20°	693.4	687.4	695.5	694.8	695.5
22.5°	681.3	676.3	685.0	683.3	683.9
25°	662.5	657.8	667.3	665.2	665.2
27.5°	640.2	636.8	647.2	645.0	645.0
30°	625.3	622.0	632.9	630.1	630.1
32.5°	608.8	606.5	616.9	613.6	613.6
35°	582.7	581.3	591.6	587.5	587.5
37.5°	555.7	554.5	563.8	558.8	557.2
40°	535.9	535.2	543.5	538.0	538.0
42.5°	516.1	515.4	522.6	515.9	515.9
45°	485.7	484.3	489.1	482.9	481.5
47.5°	452.5	451.2	454.2	447.4	446.7
50°	430.0	428.6	430.0	423.7	423.1
52.5°	406.8	404.4	404.6	398.4	398.3
55°	371.5	366.8	366.7	361.2	361.2
57.5°	334.1	327.9	328.4	323.7	323.1
60°	308.2	301.5	302.0	297.9	297.2
62.5°	282.9	275.1	276.7	272.0	271.9
65°	240.8	235.4	236.0	233.9	233.9
67.5°	200.3	195.3	198.9	197.3	197.2
70°	170.6	167.2	172.0	172.0	171.3
72.5°	143.1	143.0	148.9	148.9	149.3
75°	103.9	108.6	114.9	115.6	115.6
77.5°	69.3	77.7	84.6	84.9	84.8
80°	49.5	58.9	65.4	66.7	66.0
82.5°	33.6	43.5	48.8	50.2	49.5
85°	15.1	23.2	27.5	28.2	27.5
87.5°	4.4	9.2	11.0	11.0	9.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.7	56.8	131.7	38.3	28.9
95°	34.8	138.2	620.9	214.9	132.5
97.5°	64.0	161.8	956.3	684.3	468.9
100°	84.3	175.9	1029.1	1042.4	802.9
102.5°	106.8	191.1	1013.1	1334.3	1125.2
105°	141.9	215.1	930.1	1642.9	1561.7
107.5°	177.5	243.1	833.2	1729.9	1802.1
110°	202.1	263.6	777.5	1696.6	1858.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	225.6	284.0	740.1	1617.8	1849.2
115°	263.6	318.6	705.3	1494.1	1754.4
117.5°	297.1	348.6	684.6	1358.7	1634.5
120°	323.9	367.0	682.5	1281.4	1545.7
122.5°	345.3	388.4	677.2	1213.5	1459.0
125°	372.0	412.6	673.1	1117.1	1335.6
127.5°	401.2	439.2	671.0	1059.4	1239.5
130°	416.2	454.1	667.8	1019.3	1176.3
132.5°	432.3	469.2	667.8	988.0	1132.4
135°	455.0	493.0	665.1	943.6	1066.6
137.5°	476.4	513.3	664.8	906.0	1012.3
140°	492.5	530.4	663.8	874.9	976.9
142.5°	510.7	542.3	667.0	850.0	941.6
145°	536.6	564.1	670.5	816.7	889.9
147.5°	558.9	585.5	676.4	783.0	846.3
150°	578.1	596.4	678.5	771.8	816.3
152.5°	593.1	612.5	680.6	756.8	798.1
155°	612.9	627.3	686.5	738.1	768.2
157.5°	637.5	646.2	687.9	729.6	751.0
160°	650.4	656.9	693.2	723.1	741.4
162.5°	657.9	665.5	694.3	717.6	731.8
165°	677.2	679.8	694.6	709.5	720.0
167.5°	690.3	687.9	700.7	707.5	711.7
170°	694.6	693.2	698.6	700.0	705.3
172.5°	704.2	699.7	701.8	697.9	702.0
175°	709.3	705.3	702.6	698.4	693.2
177.5°	711.4	705.1	701.8	697.5	698.6
180°	703.9	703.9	703.9	703.9	703.9

(END OF REPORT)