

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: P564543

Luminaire Tested: **SQ4-PW1-025U-050D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564543
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-050D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

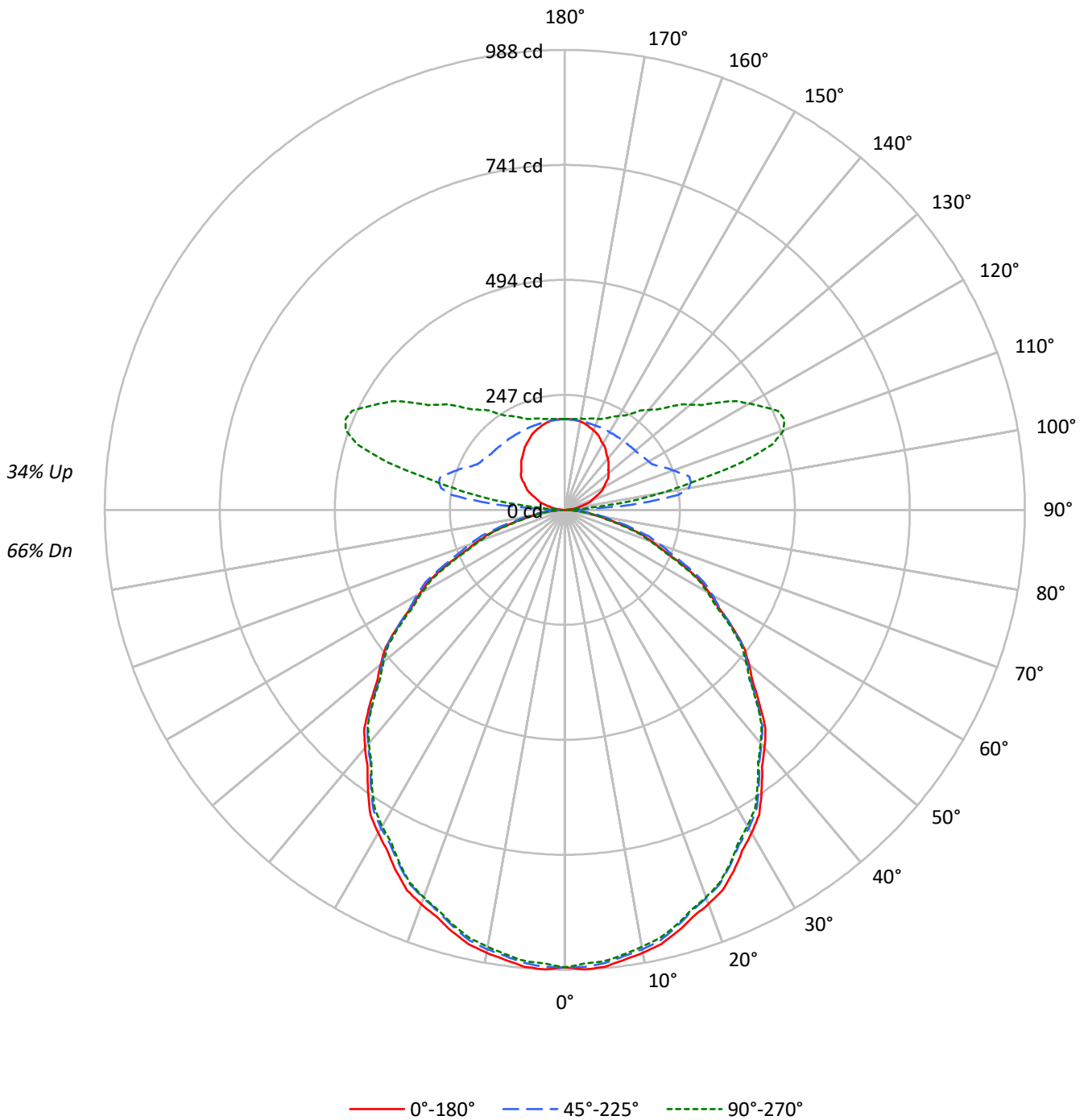
Lumens per Lamp: N/A
Luminaire Lumens: 3766.3 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 34.9
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	50	30	10	0	
RCR																						
0	111	111	111	111	105	105	105	105	92	92	92	81	81	81	71	71	71	66				
1	102	97	93	90	96	92	88	85	81	79	76	72	70	68	63	62	60	56				
2	93	85	79	74	87	80	75	70	71	67	63	63	60	57	56	53	51	47				
3	85	75	67	61	79	71	64	59	63	58	53	56	52	48	49	46	44	40				
4	77	66	58	52	73	63	56	50	56	50	46	50	45	42	44	41	38	34				
5	71	59	51	45	67	56	49	43	50	44	40	45	40	36	40	36	33	30				
6	66	53	45	39	62	51	43	38	45	39	35	41	36	32	36	32	29	26				
7	61	48	40	34	57	46	38	33	41	35	31	37	32	28	33	29	26	23				
8	57	44	36	30	53	42	34	29	38	32	27	34	29	25	30	26	23	21				
9	53	40	32	27	50	38	31	26	35	29	25	31	26	23	28	24	21	19				
10	49	37	30	25	46	35	28	24	32	26	22	29	24	21	26	22	19	17				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6044	6044	6044
5°	6084	6035	6008
10°	6035	5986	5953
15°	5970	5904	5883
20°	5900	5809	5797
25°	5817	5711	5693
30°	5694	5608	5571
35°	5532	5454	5422
40°	5360	5276	5255
45°	5151	5083	5061
50°	4938	4896	4863
55°	4707	4707	4633
60°	4420	4505	4345
65°	4045	4247	3944
70°	3566	3908	3473
75°	3044	3498	2963
80°	2363	2943	2391
85°	1524	2258	2018



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	2.5
10°-20°	261.2	6.9
20°-30°	387.5	10.3
30°-40°	453.4	12.0
40°-50°	451.4	12.0
50°-60°	389.8	10.3
60°-70°	280.6	7.4
70°-80°	147.1	3.9
80°-90°	37.5	1.0
90°-100°	95.1	2.5
100°-110°	250.1	6.6
110°-120°	259.3	6.9
120°-130°	208.0	5.5
130°-140°	163.2	4.3
140°-150°	125.3	3.3
150°-160°	90.2	2.4
160°-170°	55.2	1.5
170°-180°	18.6	0.5
0°-30°	741.3	19.7
0°-40°	1194.7	31.7
0°-60°	2035.9	54.1
0°-90°	2501.2	66.4
90°-120°	604.6	16.1
90°-150°	1101.1	29.2
90°-180°	1265.0	33.6
0°-180°	3766.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	983	983	983	983	983	
5°	985	974	978	975	973	93
15°	938	926	927	926	924	264
25°	857	843	842	836	839	394
35°	737	727	726	720	722	461
45°	592	587	584	583	582	457
55°	439	438	439	433	432	392
65°	278	286	292	280	271	275
75°	128	140	147	137	125	137
85°	22	28	32	30	29	29
90°	1	4	10	5	5	2
95°	12	49	164	84	58	14
105°	45	68	276	420	392	48
115°	80	97	222	442	504	79
125°	111	125	201	340	402	99
135°	133	146	195	275	312	103
145°	154	164	193	234	253	96
155°	174	179	193	212	218	80
165°	188	190	193	200	203	53
175°	195	195	194	196	196	19
180°	195	195	195	195	195	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	982.7	982.7	982.7	982.7	982.7
2.5°	988.2	980.1	982.7	980.5	975.7
5°	985.3	974.2	977.5	974.8	973.1
7.5°	975.2	965.1	967.4	964.6	963.6
10°	966.2	956.0	958.4	954.9	953.2
12.5°	955.8	945.0	947.3	943.8	942.8
15°	937.6	925.8	927.2	925.5	923.8
17.5°	916.5	904.5	904.7	902.0	901.6
20°	901.3	888.6	887.4	884.0	885.7
22.5°	884.7	871.3	870.1	865.3	867.7
25°	857.1	842.7	841.5	836.4	838.9
27.5°	825.3	811.0	811.1	803.8	806.6
30°	801.7	788.2	789.6	781.0	784.4
32.5°	776.8	764.6	765.3	756.8	760.2
35°	736.8	726.6	726.4	719.5	722.1
37.5°	695.9	686.9	685.5	681.6	682.2
40°	667.5	659.9	657.1	654.5	654.5
42.5°	637.7	630.8	628.0	626.1	625.4
45°	592.2	587.1	584.4	582.6	581.8
47.5°	547.2	542.4	540.1	538.8	538.0
50°	516.0	512.6	511.7	509.1	508.2
52.5°	484.8	482.8	481.9	478.6	477.7
55°	438.9	438.1	438.9	432.9	432.0
57.5°	391.2	392.5	395.3	387.1	385.1
60°	359.3	362.7	366.2	356.6	353.2
62.5°	326.7	332.2	337.1	326.1	321.4
65°	277.9	286.4	291.8	280.3	271.0
67.5°	230.8	241.3	247.8	235.4	224.9
70°	198.3	210.1	217.3	204.9	193.1
72.5°	169.9	183.1	188.9	177.2	165.4
75°	128.1	140.0	147.2	137.4	124.7
77.5°	90.9	102.1	108.0	99.5	89.0
80°	66.7	78.5	83.1	76.0	67.5
82.5°	47.3	57.1	60.3	56.0	50.2
85°	21.6	28.4	32.0	30.3	28.6
87.5°	5.8	11.0	15.2	14.2	14.9
90°	1.3	3.7	10.0	5.0	5.0
92.5°	5.3	25.3	56.1	24.8	16.0
95°	12.5	49.2	163.9	84.5	57.6
97.5°	21.8	54.1	245.2	195.0	143.6
100°	28.8	58.1	270.3	273.9	212.7
102.5°	34.8	62.2	277.3	341.1	288.8
105°	45.0	68.3	276.5	419.8	391.6
107.5°	55.6	77.1	260.8	460.6	467.5
110°	62.6	82.1	247.7	471.1	500.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.6	88.2	235.7	464.5	509.5
115°	80.1	97.2	221.5	441.8	504.2
117.5°	90.3	106.0	211.7	410.5	479.7
120°	96.3	111.0	207.7	389.4	456.7
122.5°	102.3	117.0	204.7	368.4	434.7
125°	111.4	124.8	201.4	340.5	401.6
127.5°	118.6	132.3	198.7	318.0	369.6
130°	122.6	137.3	197.7	303.9	351.6
132.5°	126.6	141.3	196.7	291.8	334.6
135°	132.6	146.1	195.2	274.8	311.6
137.5°	138.9	152.1	194.9	262.2	292.3
140°	143.9	156.1	193.9	252.1	280.3
142.5°	147.9	159.1	193.9	245.0	269.3
145°	153.9	163.7	192.7	234.4	252.7
147.5°	159.9	169.4	192.7	225.6	240.7
150°	163.9	172.5	192.7	220.5	232.7
152.5°	167.9	174.5	192.7	216.4	225.7
155°	173.9	178.8	192.7	211.6	217.7
157.5°	178.4	183.1	192.7	207.3	211.7
160°	181.4	185.1	192.7	205.3	207.7
162.5°	184.4	187.1	192.7	203.3	205.7
165°	187.7	190.1	192.7	200.2	202.7
167.5°	190.7	191.9	193.9	199.0	199.9
170°	192.7	193.9	193.9	198.9	198.9
172.5°	193.7	193.9	193.9	197.9	196.9
175°	195.2	195.2	193.9	196.4	196.4
177.5°	195.2	195.2	194.2	196.2	195.2
180°	195.2	195.2	195.2	195.2	195.2

(END OF REPORT)