

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

Brand: CORELITE

Report Number:

Luminaire Tested: SQ4-PC3-025U-100D-927-1D-UNV-STD-W-4

Issue Date: 8/1/2024

Test Information

Test Method: LM-79-2019
Report Number:
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PC3-025U-100D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

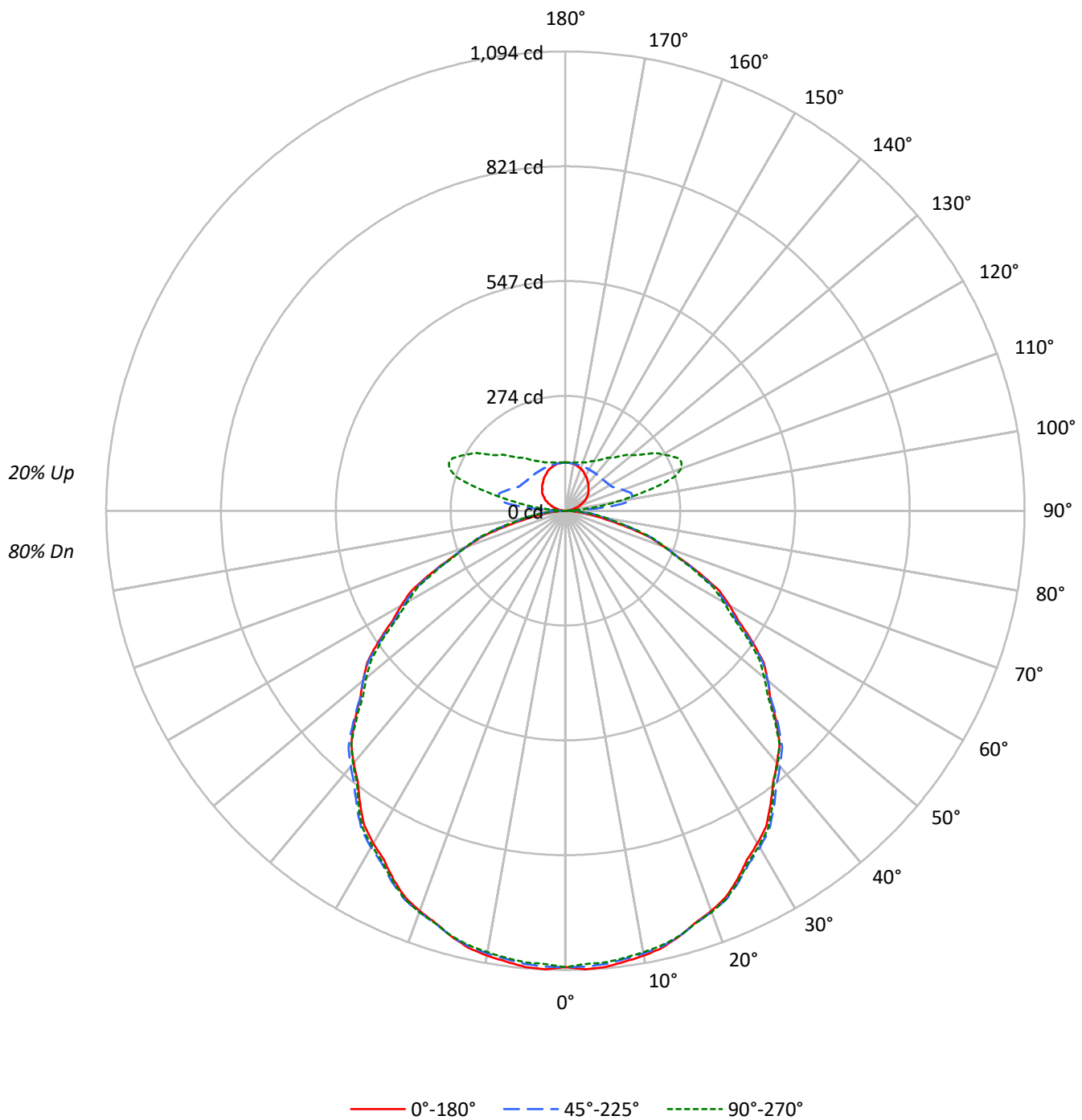
Lumens per Lamp: N/A
Luminaire Lumens: 3711.4 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 38.7
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	84	84	84
1	105	100	96	92	100	96	92	89	88	85	83	81	79	77	74	72	71
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60
3	87	77	69	63	83	74	67	61	68	62	58	63	58	54	58	54	51
4	80	68	60	53	76	66	58	52	61	54	49	56	51	46	52	47	44
5	73	61	52	46	70	59	51	45	54	48	43	50	45	40	46	42	38
6	68	55	46	40	64	53	45	39	49	42	37	45	40	35	42	37	34
7	63	50	41	35	60	48	40	34	45	38	33	41	36	31	38	34	30
8	58	45	37	31	56	44	36	31	41	34	29	38	32	28	35	30	27
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	33	28	24
10	51	38	30	25	49	37	30	25	35	28	24	32	27	23	30	25	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10030	10030	10030
5°	10106	10040	10003
10°	10081	10034	10006
15°	10028	10028	10019
20°	9963	9992	9992
25°	9868	9940	9909
30°	9748	9866	9824
35°	9603	9750	9683
40°	9445	9577	9481
45°	9273	9338	9193
50°	9030	9030	8886
55°	8744	8630	8501
60°	8322	8154	8025
65°	7691	7538	7471
70°	6733	6790	6760
75°	5418	5992	6028
80°	3852	5079	5133
85°	2339	4266	4266

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 9338 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	2.8
10°-20°	295.3	8.0
20°-30°	447.1	12.0
30°-40°	536.0	14.4
40°-50°	546.6	14.7
50°-60°	477.1	12.9
60°-70°	341.6	9.2
70°-80°	175.9	4.7
80°-90°	45.1	1.2
90°-100°	55.9	1.5
100°-110°	147.0	4.0
110°-120°	152.5	4.1
120°-130°	122.3	3.3
130°-140°	95.9	2.6
140°-150°	73.6	2.0
150°-160°	53.0	1.4
160°-170°	32.5	0.9
170°-180°	11.0	0.3
0°-30°	845.3	22.8
0°-40°	1381.3	37.2
0°-60°	2405.0	64.8
0°-90°	2967.7	80.0
90°-120°	355.4	9.6
90°-150°	647.3	17.4
90°-180°	744.0	20.0
0°-180°	3711.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1087	1087	1087	1087	1087	
5°	1091	1080	1084	1081	1080	104
15°	1050	1041	1050	1050	1049	296
25°	969	962	976	973	973	446
35°	853	851	866	860	860	533
45°	711	709	716	707	705	547
55°	544	537	536	528	528	485
65°	352	344	345	342	342	348
75°	152	159	168	169	169	164
85°	22	34	40	41	40	30
90°	1	2	6	3	3	2
95°	7	29	96	50	34	8
105°	26	40	163	247	230	28
115°	47	57	130	260	296	46
125°	66	73	118	200	236	58
135°	78	86	115	162	183	60
145°	90	96	113	138	149	57
155°	102	105	113	124	128	47
165°	110	112	113	118	119	31
175°	115	115	114	116	116	11
180°	115	115	115	115	115	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1087.1	1087.1	1087.1	1087.1	1087.1
2.5°	1093.6	1084.1	1087.1	1084.6	1080.7
5°	1091.2	1080.3	1084.1	1081.1	1080.1
7.5°	1083.3	1072.5	1077.5	1075.4	1074.5
10°	1076.1	1065.2	1071.0	1069.0	1068.0
12.5°	1066.4	1056.4	1063.0	1061.0	1060.8
15°	1049.9	1041.0	1049.9	1049.9	1048.9
17.5°	1029.2	1021.1	1030.6	1031.2	1030.6
20°	1014.7	1005.8	1017.7	1016.7	1017.7
22.5°	997.0	989.7	1002.4	999.8	1000.8
25°	969.4	962.5	976.4	973.4	973.4
27.5°	936.8	931.8	947.0	943.8	943.8
30°	915.0	910.1	926.1	922.1	922.1
32.5°	890.9	887.5	902.7	897.9	897.9
35°	852.6	850.6	865.7	859.7	859.7
37.5°	813.1	811.4	825.0	817.7	815.4
40°	784.2	783.2	795.2	787.2	787.2
42.5°	755.2	754.2	764.6	755.0	755.0
45°	710.7	708.7	715.7	706.6	704.6
47.5°	662.2	660.2	664.6	654.7	653.7
50°	629.1	627.2	629.1	620.1	619.1
52.5°	595.3	591.8	592.1	583.0	582.8
55°	543.6	536.7	536.5	528.5	528.5
57.5°	488.8	479.8	480.6	473.7	472.7
60°	451.0	441.1	441.9	435.8	434.9
62.5°	413.9	402.5	404.9	398.0	397.8
65°	352.3	344.4	345.3	342.2	342.2
67.5°	293.1	285.8	291.1	288.7	288.5
70°	249.6	244.7	251.7	251.6	250.6
72.5°	209.4	209.2	217.8	217.8	218.4
75°	152.0	158.9	168.1	169.1	169.1
77.5°	101.5	113.7	123.8	124.2	124.0
80°	72.5	86.3	95.6	97.6	96.6
82.5°	49.1	63.7	71.5	73.5	72.5
85°	22.1	34.0	40.3	41.2	40.3
87.5°	6.6	14.0	17.3	16.7	15.1
90°	0.7	2.2	5.9	2.9	2.9
92.5°	3.1	14.9	33.0	14.6	9.4
95°	7.4	28.9	96.4	49.7	33.8
97.5°	12.8	31.8	144.2	114.7	84.4
100°	16.9	34.2	158.9	161.0	125.0
102.5°	20.4	36.6	163.0	200.6	169.8
105°	26.5	40.1	162.6	246.8	230.2
107.5°	32.7	45.3	153.3	270.8	274.8
110°	36.8	48.3	145.6	277.0	294.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	40.9	51.8	138.6	273.1	299.5
115°	47.1	57.1	130.2	259.8	296.4
117.5°	53.1	62.3	124.5	241.3	282.0
120°	56.6	65.3	122.1	228.9	268.5
122.5°	60.2	68.8	120.3	216.6	255.5
125°	65.5	73.4	118.4	200.2	236.1
127.5°	69.7	77.8	116.8	186.9	217.3
130°	72.1	80.7	116.2	178.6	206.7
132.5°	74.4	83.1	115.6	171.5	196.7
135°	78.0	85.9	114.7	161.6	183.2
137.5°	81.6	89.4	114.6	154.1	171.8
140°	84.6	91.8	114.0	148.2	164.8
142.5°	86.9	93.6	114.0	144.1	158.3
145°	90.5	96.2	113.3	137.8	148.6
147.5°	94.0	99.6	113.3	132.6	141.5
150°	96.4	101.4	113.3	129.6	136.8
152.5°	98.7	102.6	113.3	127.2	132.7
155°	102.2	105.1	113.3	124.4	128.0
157.5°	104.9	107.6	113.3	121.9	124.5
160°	106.7	108.8	113.3	120.7	122.1
162.5°	108.4	110.0	113.3	119.5	120.9
165°	110.3	111.8	113.3	117.7	119.2
167.5°	112.1	112.8	114.0	117.0	117.5
170°	113.3	114.0	114.0	117.0	117.0
172.5°	113.9	114.0	114.0	116.4	115.8
175°	114.7	114.7	114.0	115.5	115.5
177.5°	114.7	114.7	114.2	115.3	114.7
180°	114.7	114.7	114.7	114.7	114.7

(END OF REPORT)