

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-PC3-100U-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 (G3-1910-536-23)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PC3-100U-100D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

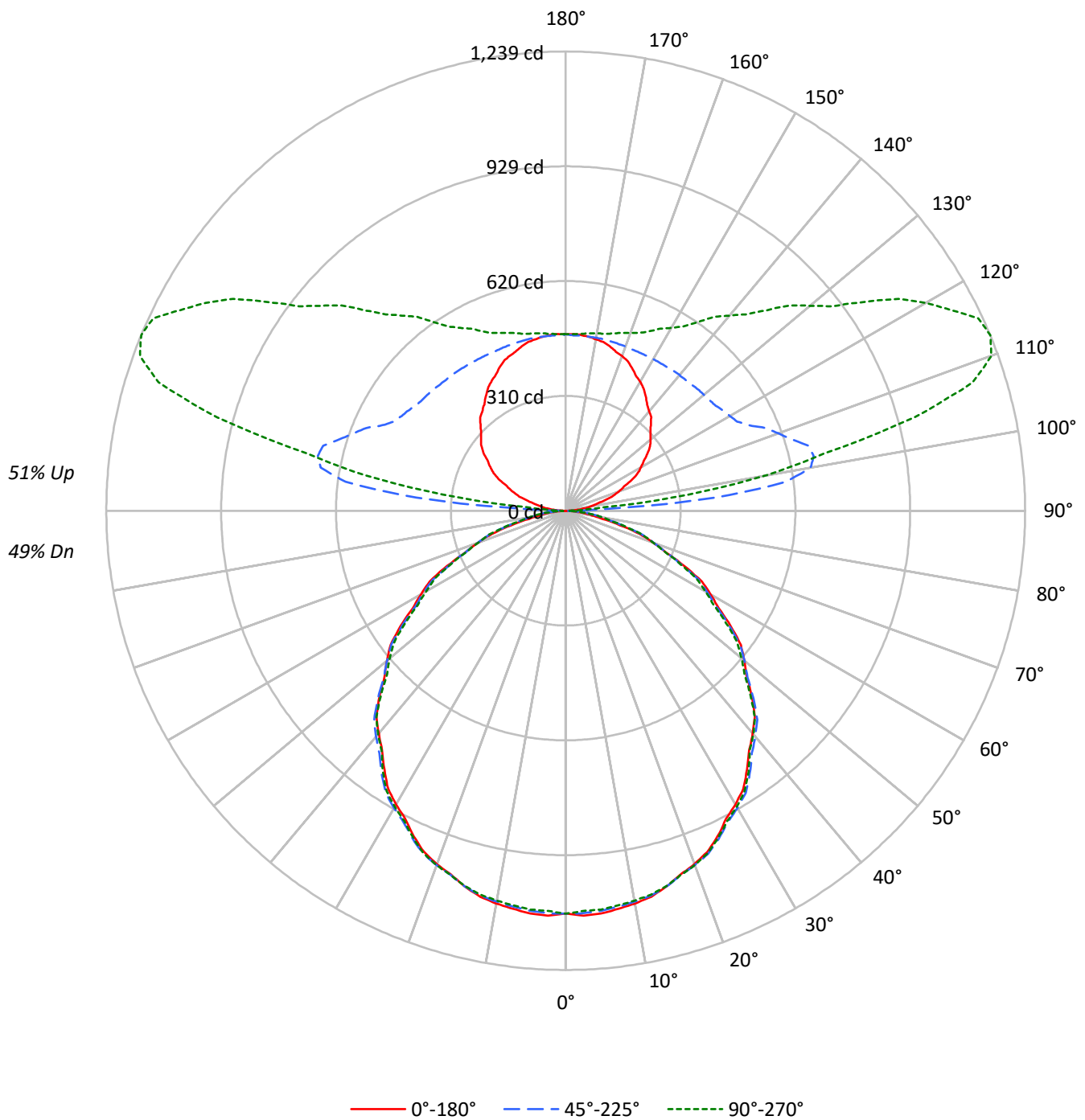
Lumens per Lamp: N/A
Luminaire Lumens: 6060.6 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 57.9
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47
2	89	81	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	33
4	74	63	55	49	68	59	52	46	50	45	40	42	38	34	34	31	29
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25
6	63	51	42	37	57	47	40	34	40	34	30	34	29	26	28	24	22
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20
8	54	41	34	28	49	38	32	27	33	28	24	28	24	20	23	20	17
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14

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	1.7
10°-20°	295.3	4.9
20°-30°	447.1	7.4
30°-40°	536.0	8.8
40°-50°	546.6	9.0
50°-60°	477.1	7.9
60°-70°	341.6	5.6
70°-80°	175.9	2.9
80°-90°	45.5	0.8
90°-100°	222.9	3.7
100°-110°	615.3	10.2
110°-120°	634.6	10.5
120°-130°	510.0	8.4
130°-140°	400.8	6.6
140°-150°	307.4	5.1
150°-160°	220.9	3.6
160°-170°	135.1	2.2
170°-180°	45.5	0.8
0°-30°	845.3	13.9
0°-40°	1381.3	22.8
0°-60°	2405.0	39.7
0°-90°	2968.0	49.0
90°-120°	1472.8	24.3
90°-150°	2691.0	44.4
90°-180°	3093.0	51.0
0°-180°	6060.6	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°	2	3	6	7	8	3
95°	33	121	404	166	108	35
105°	110	169	677	1034	973	117
115°	196	237	545	1079	1228	193
125°	270	307	494	836	982	240
135°	324	359	480	677	764	251
145°	376	402	474	577	621	236
155°	424	438	471	518	534	195
165°	459	465	473	491	495	129
175°	476	477	474	480	479	45
180°	476	476	476	476	476	

TEST NUMBER:

CATALOG NUMBER: SQ4-PC3-100U-100D-927-1D-UNV-STD-W-4

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°	6.7	14.1	17.3	17.4	16.0
90°	1.5	3.0	6.1	6.9	7.6
92.5°	13.7	56.9	101.7	37.1	28.9
95°	32.7	120.6	404.4	166.2	108.1
97.5°	54.2	135.1	599.0	461.2	334.0
100°	70.1	143.8	670.9	675.7	549.1
102.5°	85.3	153.6	684.9	834.8	714.8
105°	109.7	169.2	677.0	1033.6	973.2
107.5°	135.6	188.6	639.2	1129.4	1151.4
110°	153.8	201.5	610.0	1150.0	1221.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	170.3	216.1	582.6	1133.7	1239.2
115°	196.5	237.4	545.3	1079.4	1227.6
117.5°	219.3	260.1	520.7	1003.0	1171.6
120°	234.6	274.8	511.0	951.2	1121.0
122.5°	249.2	287.6	503.1	902.9	1063.7
125°	269.6	306.8	494.2	836.4	981.6
127.5°	286.9	324.2	489.1	780.2	905.5
130°	298.5	335.8	486.6	745.9	859.8
132.5°	309.5	344.9	484.2	717.0	820.2
135°	324.4	359.4	480.5	677.4	763.8
137.5°	341.2	373.0	478.7	644.3	718.0
140°	350.3	381.6	477.5	622.1	686.9
142.5°	360.7	389.6	476.3	602.5	659.5
145°	376.2	402.3	474.4	576.7	620.7
147.5°	391.1	413.9	472.8	555.0	589.1
150°	402.1	420.7	472.2	542.1	569.6
152.5°	410.6	428.0	471.5	531.0	553.8
155°	424.2	438.3	470.6	517.5	533.8
157.5°	436.7	447.5	470.8	507.6	518.8
160°	444.0	453.7	471.4	502.0	510.2
162.5°	450.1	458.6	472.0	497.1	503.5
165°	459.2	465.2	472.9	491.3	495.0
167.5°	466.2	469.8	473.7	487.7	488.9
170°	469.9	472.8	473.7	485.9	485.9
172.5°	472.9	474.7	473.7	483.4	482.8
175°	476.0	476.7	473.7	480.5	479.0
177.5°	477.2	476.6	473.5	477.8	476.6
180°	476.0	476.0	476.0	476.0	476.0

(END OF REPORT)