

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-PC3-075U-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 (G3-1910-536-22)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PC3-075U-100D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

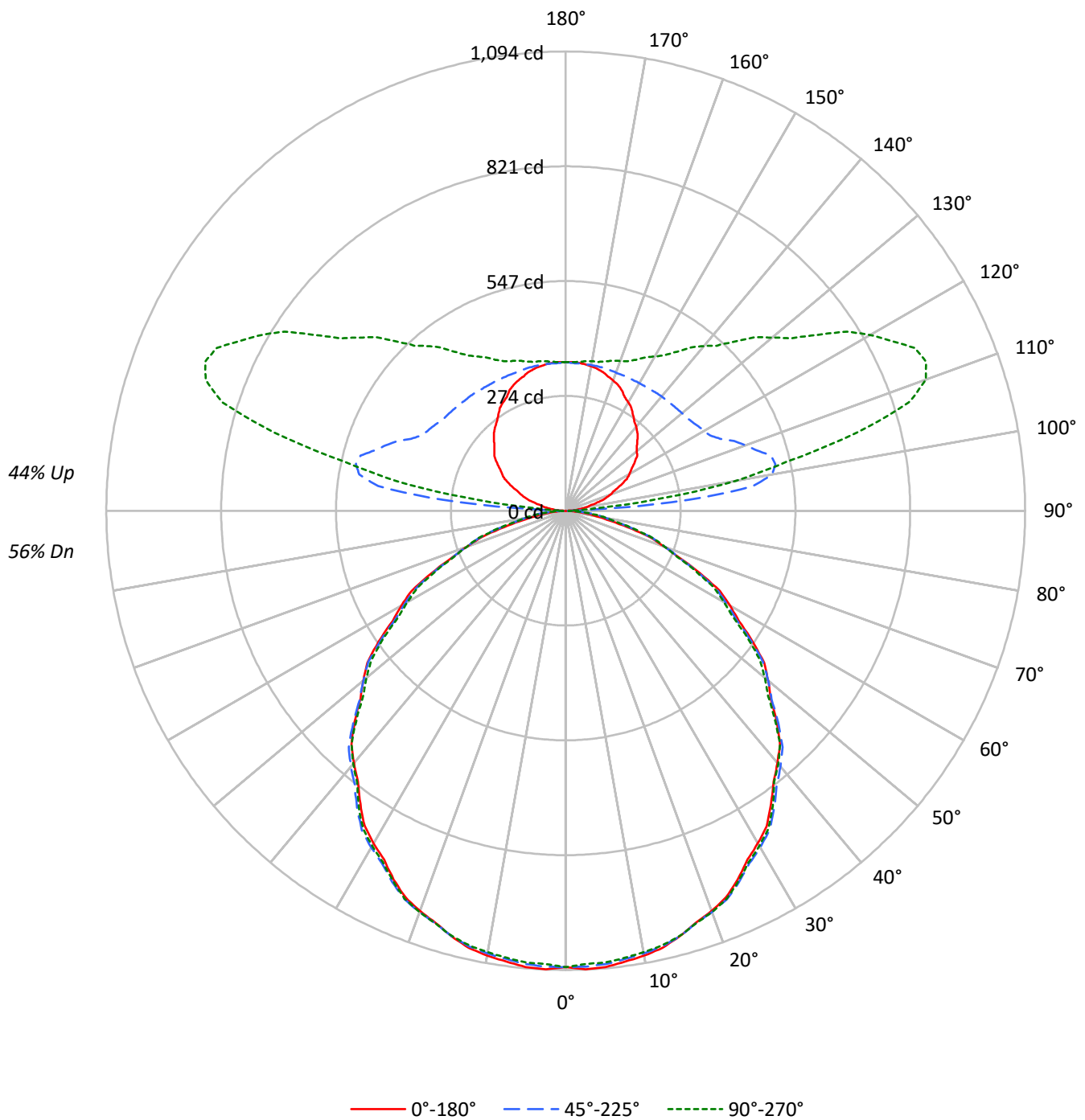
Lumens per Lamp: N/A
Luminaire Lumens: 5273.2 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 51.3
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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62
1	99	95	91	88	92	88	85	82	76	74	72	65	63	62	55	54	52
2	90	83	77	72	84	77	72	67	67	63	59	57	54	52	48	46	44
3	82	73	65	60	76	68	62	56	59	54	50	51	47	44	43	40	38
4	75	64	56	50	70	60	53	48	52	47	42	45	41	37	38	35	32
5	69	57	49	43	64	54	46	41	47	41	37	40	36	32	34	31	28
6	64	52	43	37	59	48	41	36	42	36	32	36	32	28	31	28	25
7	59	47	38	33	55	44	36	31	38	32	28	33	28	25	28	25	22
8	55	42	34	29	51	40	33	28	35	29	25	30	26	22	26	22	20
9	51	39	31	26	47	36	29	25	32	26	22	28	23	20	24	20	18
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16

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	2.0
10°-20°	295.3	5.6
20°-30°	447.1	8.5
30°-40°	536.0	10.2
40°-50°	546.6	10.4
50°-60°	477.1	9.0
60°-70°	341.6	6.5
70°-80°	175.9	3.3
80°-90°	45.4	0.9
90°-100°	166.9	3.2
100°-110°	459.2	8.7
110°-120°	473.9	9.0
120°-130°	379.7	7.2
130°-140°	298.2	5.7
140°-150°	228.6	4.3
150°-160°	164.3	3.1
160°-170°	100.5	1.9
170°-180°	33.9	0.6
0°-30°	845.3	16.0
0°-40°	1381.3	26.2
0°-60°	2405.0	45.6
0°-90°	2967.9	56.3
90°-120°	1100.0	20.9
90°-150°	2006.5	38.1
90°-180°	2305.0	43.7
0°-180°	5273.2	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	3	5	7	7	3
95°	25	91	295	126	81	26
105°	82	126	506	770	719	87
115°	145	177	406	808	917	143
125°	200	228	368	623	730	179
135°	242	268	358	504	570	186
145°	279	298	352	429	462	175
155°	316	326	350	386	397	145
165°	342	346	352	366	368	96
175°	354	355	352	357	356	34
180°	354	354	354	354	354	

TEST NUMBER:

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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	14.1	17.2	17.4	15.9
90°	0.8	3.0	5.3	6.8	6.8
92.5°	10.4	44.4	76.9	29.5	24.2
95°	24.8	91.1	295.1	126.2	80.6
97.5°	40.5	101.0	450.4	347.0	244.8
100°	51.9	107.2	499.2	503.8	411.1
102.5°	62.8	114.5	511.8	625.1	540.0
105°	82.1	126.2	505.9	770.5	719.0
107.5°	100.4	140.8	477.2	841.8	857.1
110°	113.7	150.5	455.5	859.5	912.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	125.7	161.4	433.8	848.1	928.8
115°	145.3	177.0	405.8	808.1	917.0
117.5°	164.0	193.1	388.0	751.9	875.1
120°	175.4	203.4	380.2	709.8	837.2
122.5°	185.7	213.6	374.8	673.0	793.8
125°	200.3	228.2	368.2	622.8	729.5
127.5°	214.1	240.8	363.8	580.9	674.6
130°	221.3	248.6	361.4	556.1	641.5
132.5°	229.8	257.0	359.6	534.2	611.3
135°	241.7	268.2	357.6	503.7	569.9
137.5°	252.8	277.4	356.0	479.0	533.6
140°	261.2	284.1	355.4	462.6	512.0
142.5°	268.5	289.5	354.2	448.0	490.3
145°	279.3	298.5	352.3	429.1	462.3
147.5°	290.9	307.4	351.4	412.4	438.9
150°	298.1	312.9	350.8	403.3	423.9
152.5°	304.8	318.3	350.2	395.3	412.4
155°	316.2	326.5	350.1	385.7	396.8
157.5°	324.5	332.9	350.1	377.8	385.5
160°	330.5	337.1	350.1	373.6	379.5
162.5°	335.3	340.8	350.7	369.9	374.6
165°	341.8	346.2	351.6	365.9	368.2
167.5°	346.3	349.7	352.3	362.6	363.2
170°	349.3	351.5	352.3	361.4	361.4
172.5°	351.7	352.8	352.3	359.6	359.0
175°	353.9	354.6	352.3	356.8	356.1
177.5°	354.5	354.5	352.0	355.6	354.5
180°	353.9	353.9	353.9	353.9	353.9

(END OF REPORT)