

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-050D-927-1D-UNV-STD-W-6

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-050D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

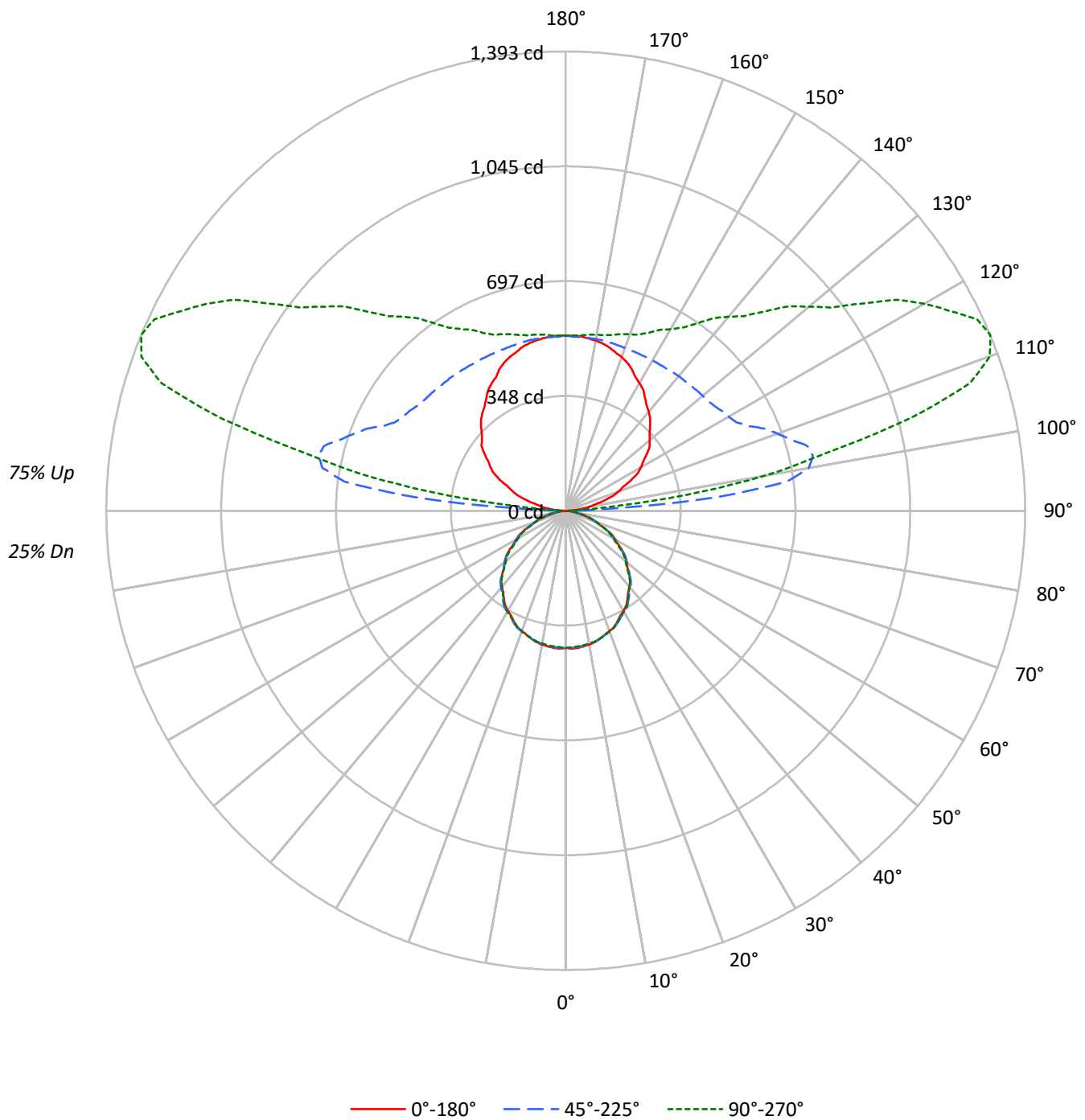
Lumens per Lamp: N/A
Luminaire Lumens: 4595.4 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 54.3
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28
2	84	77	71	66	74	69	64	59	53	50	47	39	37	35	26	24	23
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	23	21	20
4	70	60	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15
6	59	47	39	34	52	42	36	31	33	28	25	24	21	19	16	14	13
7	54	42	35	29	48	38	32	27	30	25	22	22	19	17	15	13	11
8	50	38	31	26	45	34	28	24	27	22	19	20	17	15	14	12	10
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	13	11	9
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2561	2561	2561
5°	2580	2564	2554
10°	2574	2562	2554
15°	2560	2560	2558
20°	2544	2551	2551
25°	2519	2538	2530
30°	2489	2519	2508
35°	2452	2489	2472
40°	2411	2446	2421
45°	2368	2384	2348
50°	2305	2305	2269
55°	2233	2204	2170
60°	2124	2081	2048
65°	1963	1924	1908
70°	1719	1734	1726
75°	1383	1530	1540
80°	985	1296	1311
85°	600	1087	1087

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 2384 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.4	0.9
10°-20°	113.1	2.5
20°-30°	171.2	3.7
30°-40°	205.3	4.5
40°-50°	209.3	4.6
50°-60°	182.7	4.0
60°-70°	130.8	2.8
70°-80°	67.4	1.5
80°-90°	18.4	0.4
90°-100°	250.3	5.4
100°-110°	688.7	15.0
110°-120°	710.9	15.5
120°-130°	569.6	12.4
130°-140°	447.4	9.7
140°-150°	342.8	7.5
150°-160°	246.5	5.4
160°-170°	150.7	3.3
170°-180°	50.8	1.1
0°-30°	323.7	7.0
0°-40°	529.0	11.5
0°-60°	921.1	20.0
0°-90°	1137.7	24.8
90°-120°	1650.0	35.9
90°-150°	3009.8	65.5
90°-180°	3458.0	75.2
0°-180°	4595.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	416	416	416	416	416	
5°	418	414	415	414	414	40
15°	402	399	402	402	402	113
25°	371	369	374	373	373	171
35°	326	326	332	329	329	204
45°	272	271	274	271	270	210
55°	208	206	206	202	202	186
65°	135	132	132	131	131	133
75°	58	61	64	65	65	63
85°	8	13	15	16	15	12
90°	1	4	8	10	10	3
95°	37	137	443	189	121	39
105°	123	189	759	1156	1078	130
115°	218	265	609	1212	1376	215
125°	300	342	552	934	1094	268
135°	362	402	536	756	855	280
145°	419	448	528	644	693	263
155°	474	490	525	579	595	218
165°	513	519	527	549	552	144
175°	531	532	528	535	534	50
180°	531	531	531	531	531	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	416.4	416.4	416.4	416.4	416.4
2.5°	418.8	415.2	416.4	415.4	413.9
5°	417.9	413.7	415.2	414.0	413.7
7.5°	414.9	410.7	412.7	411.9	411.5
10°	412.1	408.0	410.2	409.4	409.0
12.5°	408.4	404.6	407.1	406.3	406.3
15°	402.1	398.7	402.1	402.1	401.7
17.5°	394.1	391.1	394.7	394.9	394.7
20°	388.6	385.2	389.8	389.4	389.8
22.5°	381.8	379.0	383.9	382.9	383.3
25°	371.2	368.6	373.9	372.8	372.8
27.5°	358.8	356.9	362.7	361.5	361.5
30°	350.4	348.5	354.7	353.1	353.1
32.5°	341.2	339.9	345.7	343.9	343.9
35°	326.5	325.8	331.5	329.2	329.2
37.5°	311.4	310.7	316.0	313.2	312.3
40°	300.3	299.9	304.6	301.5	301.5
42.5°	289.2	288.8	292.8	289.1	289.1
45°	272.2	271.4	274.1	270.6	269.9
47.5°	253.6	252.8	254.5	250.7	250.4
50°	240.9	240.2	240.9	237.5	237.1
52.5°	228.0	226.6	226.8	223.3	223.2
55°	208.2	205.5	205.5	202.4	202.4
57.5°	187.2	183.7	184.0	181.4	181.0
60°	172.7	168.9	169.2	166.9	166.5
62.5°	158.5	154.2	155.1	152.4	152.4
65°	134.9	131.9	132.2	131.1	131.1
67.5°	112.3	109.5	111.5	110.6	110.5
70°	95.6	93.7	96.4	96.4	96.0
72.5°	80.2	80.1	83.4	83.4	83.7
75°	58.2	60.9	64.4	64.8	64.8
77.5°	38.9	43.5	47.4	47.6	47.5
80°	27.8	33.0	36.6	37.4	37.0
82.5°	18.8	24.4	27.4	28.1	27.8
85°	8.5	13.0	15.4	15.8	15.4
87.5°	2.7	6.1	7.7	8.2	7.6
90°	1.1	4.4	7.9	10.2	10.2
92.5°	15.6	66.6	115.4	44.3	36.4
95°	37.3	136.6	442.7	189.3	120.8
97.5°	60.8	151.5	675.6	520.5	367.3
100°	77.9	160.7	748.7	755.7	616.6
102.5°	94.2	171.7	767.7	937.6	809.9
105°	123.1	189.3	758.9	1155.8	1078.5
107.5°	150.7	211.2	715.8	1262.6	1285.6
110°	170.5	225.7	683.2	1289.2	1368.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	188.6	242.0	650.7	1272.1	1393.1
115°	218.0	265.4	608.7	1212.1	1375.5
117.5°	246.0	289.7	582.0	1127.9	1312.7
120°	263.1	305.1	570.3	1064.8	1255.8
122.5°	278.5	320.4	562.2	1009.4	1190.8
125°	300.4	342.4	552.2	934.2	1094.3
127.5°	321.2	361.2	545.7	871.4	1011.9
130°	332.0	372.9	542.1	834.1	962.2
132.5°	344.7	385.5	539.4	801.3	917.0
135°	362.5	402.3	536.4	755.5	854.9
137.5°	379.2	416.1	533.9	718.5	800.5
140°	391.9	426.1	533.0	694.0	767.9
142.5°	402.7	434.3	531.2	672.0	735.4
145°	419.0	447.7	528.5	643.7	693.4
147.5°	436.4	461.1	527.2	618.6	658.4
150°	447.2	469.3	526.3	604.9	635.8
152.5°	457.1	477.5	525.4	593.0	618.6
155°	474.3	489.8	525.1	578.6	595.1
157.5°	486.7	499.3	525.1	566.7	578.2
160°	495.8	505.7	525.1	560.3	569.2
162.5°	503.0	511.2	526.0	554.9	561.9
165°	512.7	519.3	527.4	548.9	552.2
167.5°	519.5	524.6	528.5	543.9	544.8
170°	524.0	527.3	528.5	542.1	542.1
172.5°	527.6	529.2	528.5	539.3	538.5
175°	530.8	531.9	528.5	535.3	534.2
177.5°	531.7	531.7	528.1	533.4	531.7
180°	530.8	530.8	530.8	530.8	530.8

(END OF REPORT)