

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-PC3-125U-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 (G3-1910-536-24)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PC3-125U-050D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

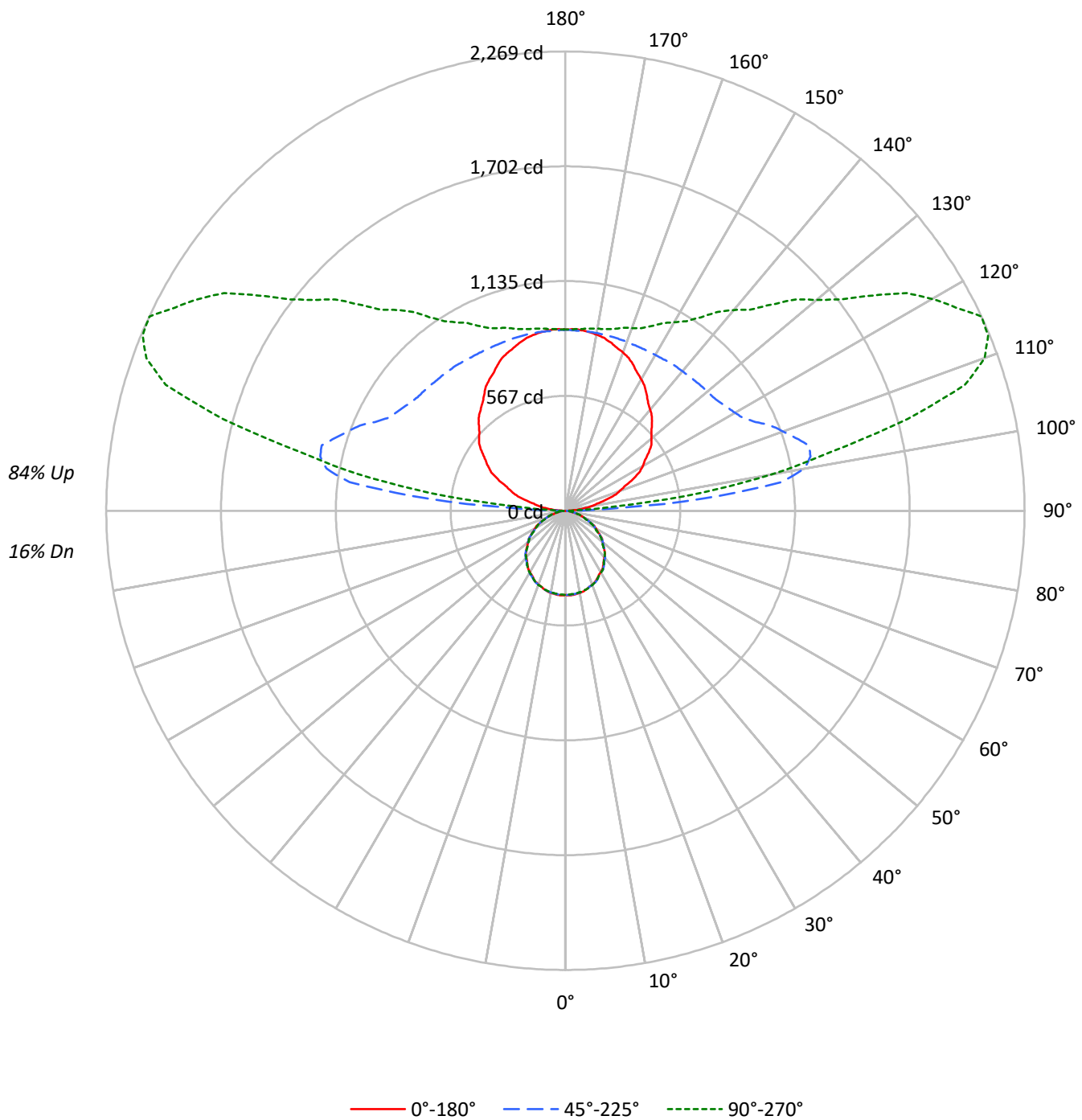
Lumens per Lamp: N/A
Luminaire Lumens: 6912.6 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 74.2
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	99	99	99	99	87	87	87	87	65	65	65	44	44	44	25	25	25
1	90	86	83	79	79	76	73	70	57	55	53	39	38	37	22	22	21
2	82	75	69	65	72	66	61	57	49	46	44	34	32	30	20	19	18
3	75	66	59	54	65	58	52	48	44	40	37	30	28	26	17	16	15
4	68	58	51	45	60	51	45	40	39	34	31	27	24	22	15	14	13
5	63	52	44	38	55	46	39	34	34	30	26	24	21	19	14	12	11
6	57	46	38	33	50	41	34	30	31	26	23	21	18	16	13	11	10
7	53	41	34	29	46	37	30	26	28	23	20	19	16	14	11	10	9
8	49	37	30	25	43	33	27	22	25	21	17	18	15	13	10	9	8
9	45	34	27	22	40	30	24	20	23	18	15	16	13	11	10	8	7
10	42	31	24	19	37	27	22	18	21	17	14	15	12	10	9	7	6

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	0.6
10°-20°	113.1	1.6
20°-30°	171.2	2.5
30°-40°	205.3	3.0
40°-50°	209.3	3.0
50°-60°	182.7	2.6
60°-70°	130.8	1.9
70°-80°	67.4	1.0
80°-90°	19.1	0.3
90°-100°	418.4	6.1
100°-110°	1127.1	16.3
110°-120°	1182.9	17.1
120°-130°	959.9	13.9
130°-140°	752.8	10.9
140°-150°	578.0	8.4
150°-160°	415.6	6.0
160°-170°	253.9	3.7
170°-180°	85.6	1.2
0°-30°	323.7	4.7
0°-40°	529.0	7.7
0°-60°	921.1	13.3
0°-90°	1138.4	16.5
90°-120°	2728.4	39.5
90°-150°	5019.1	72.6
90°-180°	5774.0	83.5
0°-180°	6912.6	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°	2	7	14	15	15	5
95°	64	228	686	351	243	67
105°	208	324	1246	1865	1750	219
115°	368	450	1038	2006	2269	362
125°	502	577	932	1575	1854	449
135°	605	675	906	1271	1439	467
145°	700	754	894	1087	1167	439
155°	794	823	886	975	1006	366
165°	861	871	890	925	930	243
175°	896	894	891	904	901	85
180°	894	894	894	894	894	

TEST NUMBER:

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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°	2.9	6.5	8.9	9.1	8.5
90°	2.3	6.7	13.7	14.8	14.8
92.5°	27.8	98.2	194.2	93.5	64.9
95°	63.8	227.6	685.9	350.8	242.7
97.5°	101.9	260.5	1075.8	898.8	677.7
100°	131.0	273.6	1199.8	1255.3	1041.4
102.5°	159.3	292.1	1240.8	1522.4	1346.8
105°	208.5	324.4	1246.5	1864.9	1750.2
107.5°	255.0	358.4	1193.4	2040.9	2070.6
110°	286.0	384.0	1145.1	2095.6	2203.7

TEST NUMBER:

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	318.8	409.7	1098.6	2083.5	2261.1
115°	368.0	450.5	1038.0	2005.7	2268.6
117.5°	412.9	490.2	991.1	1881.5	2174.3
120°	442.1	516.7	967.4	1792.3	2093.1
122.5°	467.6	541.4	950.1	1701.1	2001.1
125°	502.5	577.1	932.1	1575.3	1853.8
127.5°	536.0	609.5	920.7	1464.3	1713.0
130°	556.0	629.6	916.1	1400.8	1619.1
132.5°	576.1	648.7	911.5	1344.8	1545.3
135°	605.0	675.2	905.8	1270.9	1439.1
137.5°	632.6	699.9	902.9	1208.2	1346.3
140°	651.8	716.4	900.1	1169.6	1294.4
142.5°	671.8	732.0	898.3	1133.6	1238.8
145°	699.6	754.2	894.5	1086.6	1166.8
147.5°	729.7	777.2	890.6	1047.0	1110.0
150°	749.7	791.0	888.8	1022.1	1074.5
152.5°	768.0	803.8	887.8	1001.8	1044.4
155°	794.2	823.1	886.5	974.9	1006.1
157.5°	817.2	839.7	886.7	956.0	976.9
160°	831.8	850.7	887.6	944.9	960.5
162.5°	844.5	859.9	888.5	935.7	946.9
165°	861.4	871.4	889.9	925.3	929.8
167.5°	875.1	880.9	891.0	917.3	919.1
170°	884.2	886.4	891.0	912.7	912.7
172.5°	889.7	890.1	891.9	908.1	908.1
175°	895.6	894.5	891.0	903.5	901.3
177.5°	898.1	896.3	891.7	899.0	897.2
180°	894.5	894.5	894.5	894.5	894.5

(END OF REPORT)