

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-PP3-125U-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-PP3-125U-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

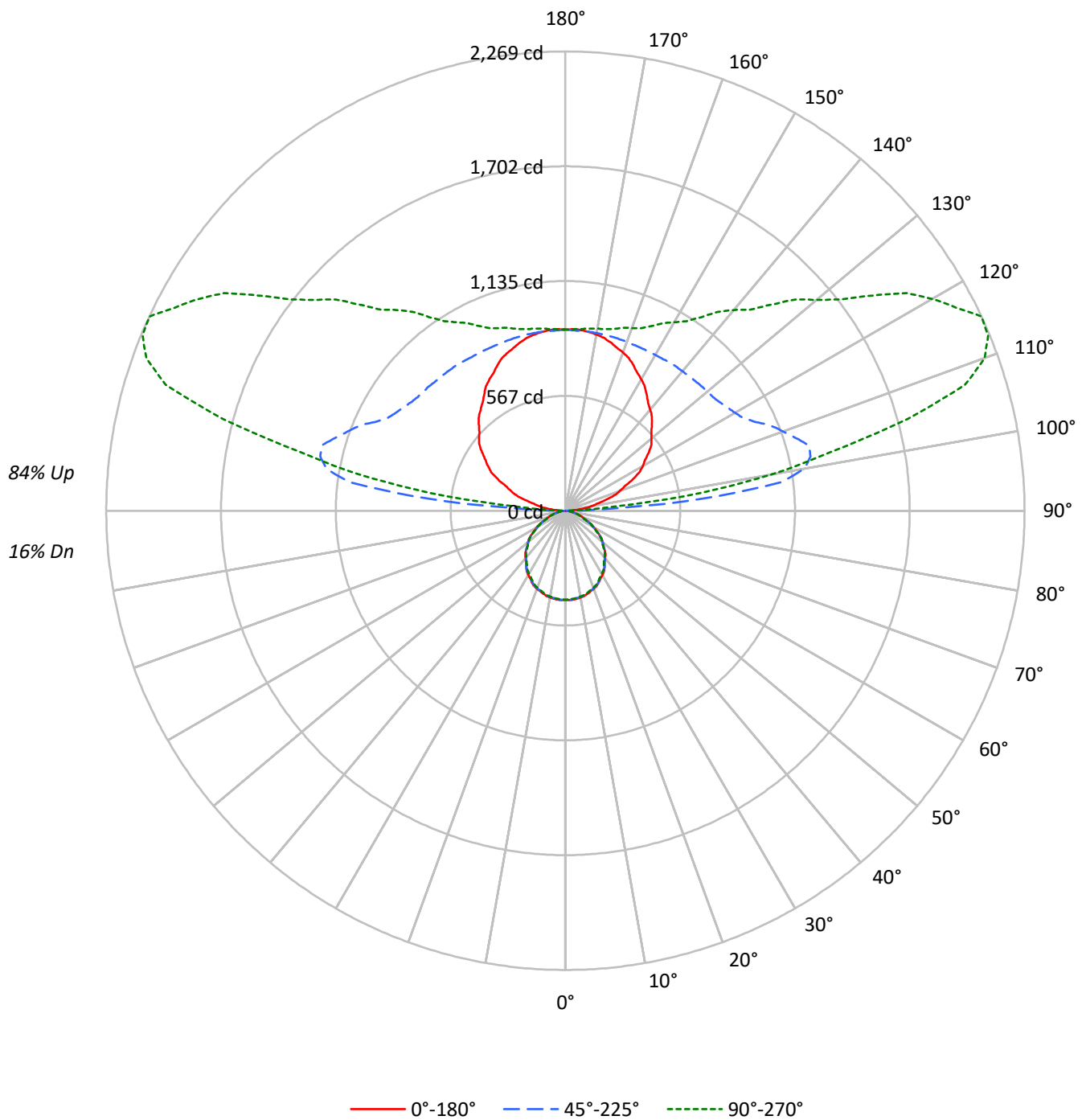
Lumens per Lamp: N/A
Luminaire Lumens: 6902.1 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

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				0
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	70	65	72	66	62	58	50	46	44	34	32	31	20	19	18
3	75	66	59	54	66	58	53	48	44	40	37	30	28	26	17	16	15
4	68	58	51	45	60	52	45	41	39	34	31	27	24	22	16	14	13
5	63	52	44	39	55	46	39	35	34	30	27	24	21	19	14	13	11
6	58	46	39	33	50	41	34	30	31	26	23	21	19	16	13	11	10
7	53	42	34	29	46	37	30	26	28	23	20	19	17	14	12	10	9
8	49	37	30	25	43	33	27	23	25	21	18	18	15	13	11	9	8
9	45	34	27	22	40	30	24	20	23	19	16	16	13	11	10	8	7
10	42	31	24	20	37	28	22	18	21	17	14	15	12	10	9	7	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2706	2706	2706
5°	2725	2709	2699
10°	2721	2701	2689
15°	2702	2688	2673
20°	2685	2670	2650
25°	2653	2635	2608
30°	2604	2590	2558
35°	2536	2518	2486
40°	2455	2439	2411
45°	2388	2371	2348
50°	2302	2287	2265
55°	2182	2153	2137
60°	1987	1930	1920
65°	1751	1678	1672
70°	1511	1449	1449
75°	1300	1283	1264
80°	1148	1162	1133
85°	896	981	981

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2388 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.6	0.6
10°-20°	118.8	1.7
20°-30°	177.9	2.6
30°-40°	208.7	3.0
40°-50°	209.3	3.0
50°-60°	178.5	2.6
60°-70°	116.5	1.7
70°-80°	58.4	0.8
80°-90°	18.3	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°	338.2	4.9
0°-40°	546.9	7.9
0°-60°	934.8	13.5
0°-90°	1127.9	16.3
90°-120°	2728.4	39.5
90°-150°	5019.1	72.7
90°-180°	5774.0	83.7
0°-180°	6902.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	440	440	440	440	440	
5°	441	437	439	437	437	42
15°	424	420	422	421	420	120
25°	391	386	388	385	384	180
35°	338	334	335	332	331	211
45°	274	273	273	270	270	211
55°	204	203	201	200	199	181
65°	120	118	115	114	115	120
75°	55	55	54	54	53	59
85°	13	14	14	14	14	15
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	439.9	439.9	439.9	439.9	439.9
2.5°	442.6	439.0	439.9	439.2	437.4
5°	441.4	437.3	438.7	437.2	437.2
7.5°	438.4	433.9	435.3	433.8	433.7
10°	435.6	431.1	432.5	431.0	430.6
12.5°	431.6	427.1	428.8	427.0	426.9
15°	424.4	420.3	422.1	420.6	419.8
17.5°	416.3	411.8	414.0	411.9	411.6
20°	410.2	405.7	407.9	404.8	404.8
22.5°	402.8	398.2	400.8	396.8	396.8
25°	390.9	386.4	388.2	384.7	384.3
27.5°	376.8	372.3	374.2	370.3	370.2
30°	366.6	362.5	364.7	360.4	360.1
32.5°	355.5	351.7	353.3	349.0	348.6
35°	337.7	334.3	335.4	331.5	331.1
37.5°	319.0	315.5	316.7	313.4	313.3
40°	305.7	303.4	303.8	301.1	300.3
42.5°	293.4	290.8	291.1	288.4	288.3
45°	274.5	272.6	272.6	269.9	269.9
47.5°	254.4	253.0	252.6	250.3	250.3
50°	240.6	239.4	239.0	237.1	236.7
52.5°	226.1	225.5	224.2	222.6	222.5
55°	203.5	202.8	200.8	199.7	199.3
57.5°	179.1	177.6	175.4	173.7	174.0
60°	161.5	160.0	156.9	156.1	156.1
62.5°	144.6	142.8	139.6	138.6	139.2
65°	120.3	118.0	115.3	114.5	114.9
67.5°	98.2	96.2	93.2	93.2	92.9
70°	84.0	82.9	80.6	80.6	80.6
72.5°	71.4	70.9	69.2	69.2	68.9
75°	54.7	54.7	54.0	53.6	53.2
77.5°	41.0	41.2	40.8	40.4	39.7
80°	32.4	33.1	32.8	32.4	32.0
82.5°	24.4	25.1	25.1	24.4	24.3
85°	12.7	13.9	13.9	13.9	13.9
87.5°	3.8	5.9	7.7	7.9	8.2
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

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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)