

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-125D-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-125D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

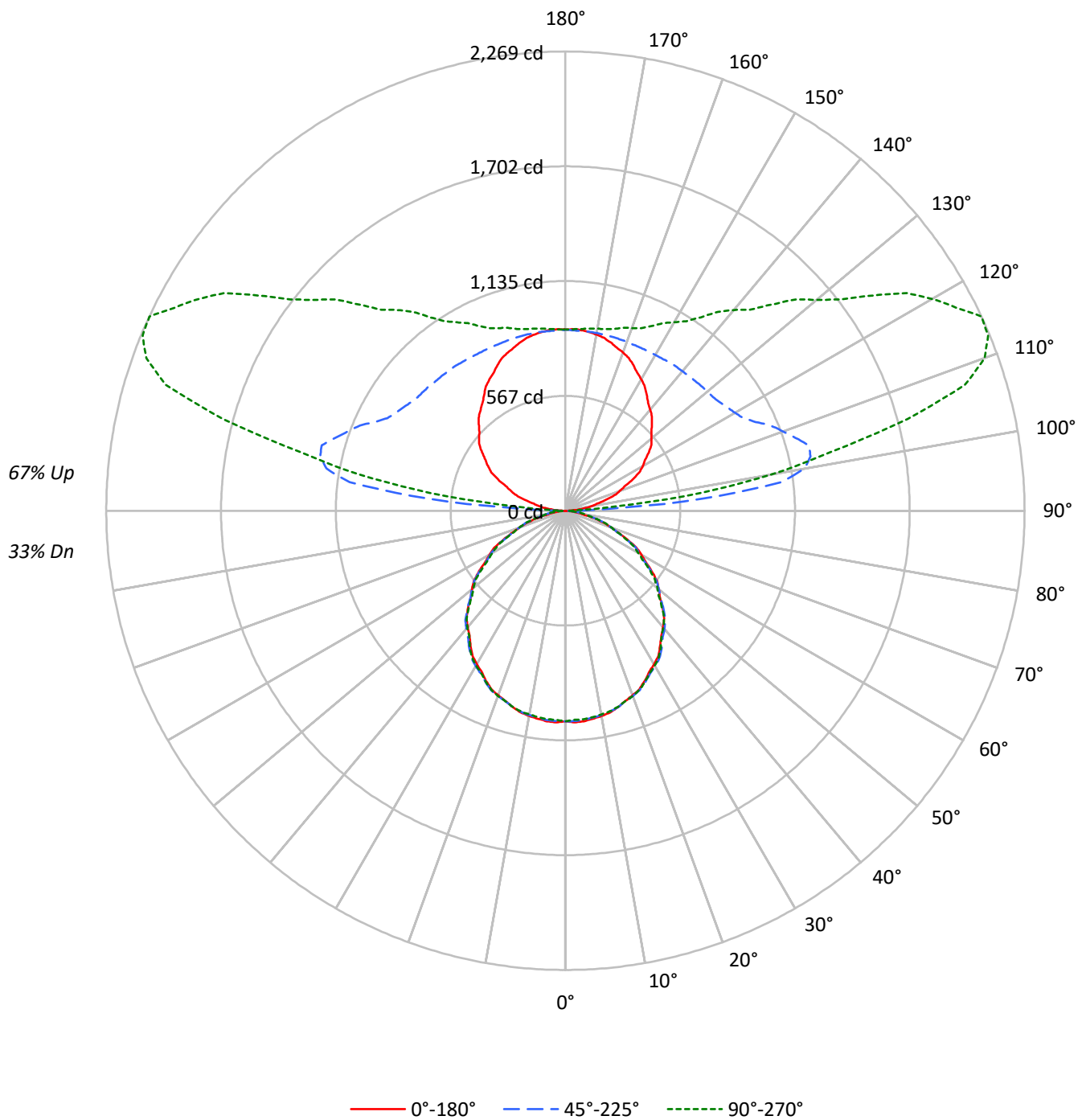
Lumens per Lamp: N/A
Luminaire Lumens: 8616.0 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 117.2
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34
2	86	78	72	67	77	71	66	62	57	53	50	44	41	39	32	30	29
3	78	69	62	56	70	62	56	51	50	46	42	38	36	33	28	26	24
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21
5	65	54	46	40	59	49	42	37	39	34	31	31	27	24	22	20	18
6	60	48	40	35	54	44	37	32	35	30	27	28	24	21	20	18	16
7	55	43	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	16	13	11
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6400	6400	6400
5°	6448	6406	6383
10°	6432	6402	6384
15°	6399	6399	6393
20°	6356	6375	6375
25°	6297	6342	6322
30°	6220	6296	6268
35°	6127	6222	6178
40°	6026	6111	6049
45°	5917	5959	5866
50°	5761	5761	5670
55°	5579	5507	5424
60°	5309	5202	5120
65°	4908	4810	4768
70°	4296	4332	4314
75°	3458	3824	3848
80°	2458	3241	3276
85°	1496	2717	2717

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 5959 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	1.1
10°-20°	282.6	3.3
20°-30°	427.9	5.0
30°-40°	513.0	6.0
40°-50°	523.1	6.1
50°-60°	456.7	5.3
60°-70°	326.9	3.8
70°-80°	168.4	2.0
80°-90°	44.7	0.5
90°-100°	418.4	4.9
100°-110°	1127.1	13.1
110°-120°	1182.9	13.7
120°-130°	959.9	11.1
130°-140°	752.8	8.7
140°-150°	578.0	6.7
150°-160°	415.6	4.8
160°-170°	253.9	2.9
170°-180°	85.6	1.0
0°-30°	809.0	9.4
0°-40°	1322.1	15.3
0°-60°	2301.9	26.7
0°-90°	2841.9	33.0
90°-120°	2728.4	31.7
90°-150°	5019.1	58.3
90°-180°	5774.0	67.0
0°-180°	8616.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1044	1034	1038	1035	1034	99
15°	1005	996	1005	1005	1004	283
25°	928	921	934	932	932	427
35°	816	814	829	823	823	510
45°	680	678	685	676	674	524
55°	520	514	514	506	506	464
65°	337	330	330	328	328	334
75°	146	152	161	162	162	157
85°	21	32	38	40	38	29
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:

CATALOG NUMBER: SQ4-PC3-125U-125D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1040.5	1040.5	1040.5	1040.5	1040.5
2.5°	1046.7	1037.6	1040.5	1038.1	1034.3
5°	1044.4	1034.0	1037.6	1034.7	1033.8
7.5°	1036.9	1026.5	1031.3	1029.3	1028.4
10°	1029.9	1019.6	1025.1	1023.1	1022.2
12.5°	1020.7	1011.1	1017.4	1015.5	1015.3
15°	1004.9	996.4	1004.9	1004.8	1003.9
17.5°	985.0	977.3	986.4	986.9	986.4
20°	971.1	962.7	974.0	973.1	974.0
22.5°	954.2	947.2	959.4	956.9	957.8
25°	927.8	921.2	934.5	931.6	931.6
27.5°	896.6	891.9	906.4	903.3	903.3
30°	875.8	871.1	886.4	882.5	882.5
32.5°	852.6	849.4	864.0	859.4	859.4
35°	816.0	814.1	828.6	822.8	822.8
37.5°	778.3	776.6	789.6	782.6	780.4
40°	750.5	749.6	761.1	753.4	753.4
42.5°	722.8	721.8	731.8	722.6	722.6
45°	680.2	678.3	685.0	676.3	674.4
47.5°	633.7	631.9	636.1	626.6	625.7
50°	602.1	600.3	602.1	593.5	592.5
52.5°	569.8	566.4	566.7	558.0	557.8
55°	520.3	513.7	513.5	505.8	505.8
57.5°	467.8	459.2	459.9	453.4	452.4
60°	431.6	422.2	422.9	417.1	416.2
62.5°	396.2	385.2	387.5	380.9	380.8
65°	337.2	329.7	330.5	327.6	327.6
67.5°	280.6	273.6	278.6	276.3	276.1
70°	238.9	234.2	240.9	240.8	239.9
72.5°	200.4	200.2	208.5	208.5	209.1
75°	145.5	152.1	160.9	161.9	161.9
77.5°	97.1	108.8	118.5	118.9	118.7
80°	69.4	82.6	91.5	93.4	92.5
82.5°	47.0	61.0	68.4	70.3	69.4
85°	21.2	32.5	38.5	39.5	38.5
87.5°	6.6	14.3	18.1	18.3	16.8
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:

CATALOG NUMBER: SQ4-PC3-125U-125D-927-1D-UNV-STD-W-6

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)