

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-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 (G3-1910-536-22)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PC3-075U-125D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

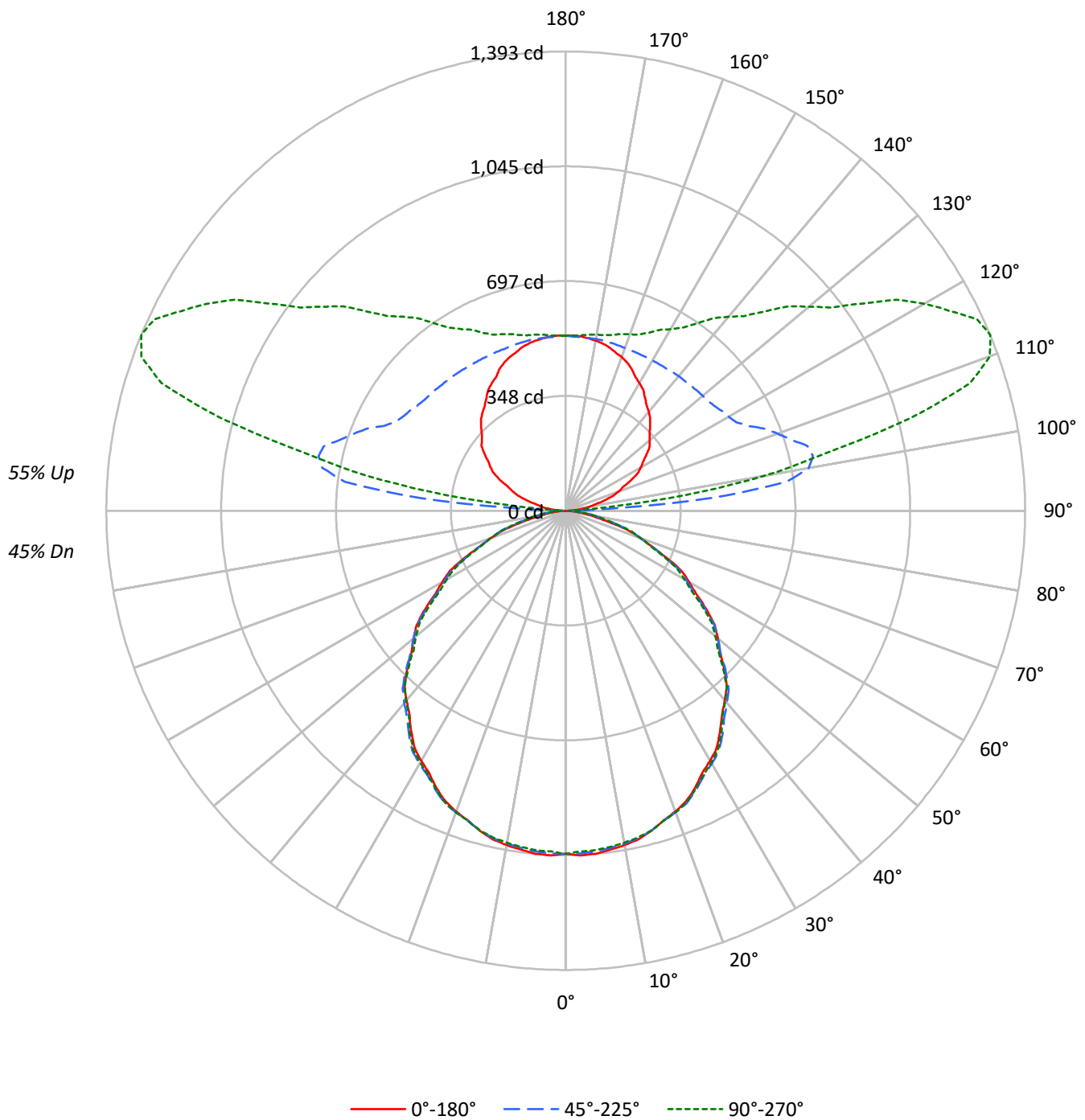
Lumens per Lamp: N/A
Luminaire Lumens: 6298.9 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 97.3
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				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52
1	97	92	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44
2	88	81	75	70	80	74	69	65	62	58	55	51	48	46	40	38	37
3	80	71	64	58	73	65	59	54	55	50	46	45	41	39	36	33	31
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27
5	67	56	48	42	61	51	44	39	43	38	34	36	32	28	29	26	23
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	21	18
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16
9	49	37	30	25	45	35	28	23	29	24	20	25	20	18	20	17	15
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13

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	1.6
10°-20°	282.6	4.5
20°-30°	427.9	6.8
30°-40°	513.0	8.1
40°-50°	523.1	8.3
50°-60°	456.7	7.2
60°-70°	326.9	5.2
70°-80°	168.4	2.7
80°-90°	43.9	0.7
90°-100°	250.3	4.0
100°-110°	688.7	10.9
110°-120°	710.9	11.3
120°-130°	569.6	9.0
130°-140°	447.4	7.1
140°-150°	342.8	5.4
150°-160°	246.5	3.9
160°-170°	150.7	2.4
170°-180°	50.8	0.8
0°-30°	809.0	12.8
0°-40°	1322.1	21.0
0°-60°	2301.9	36.5
0°-90°	2841.1	45.1
90°-120°	1650.0	26.2
90°-150°	3009.8	47.8
90°-180°	3458.0	54.9
0°-180°	6298.9	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°	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°	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°	6.4	13.8	17.0	17.4	15.9
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)