

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-WB-025U-075D-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 (G3-1910-536-32)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-WB-025U-075D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

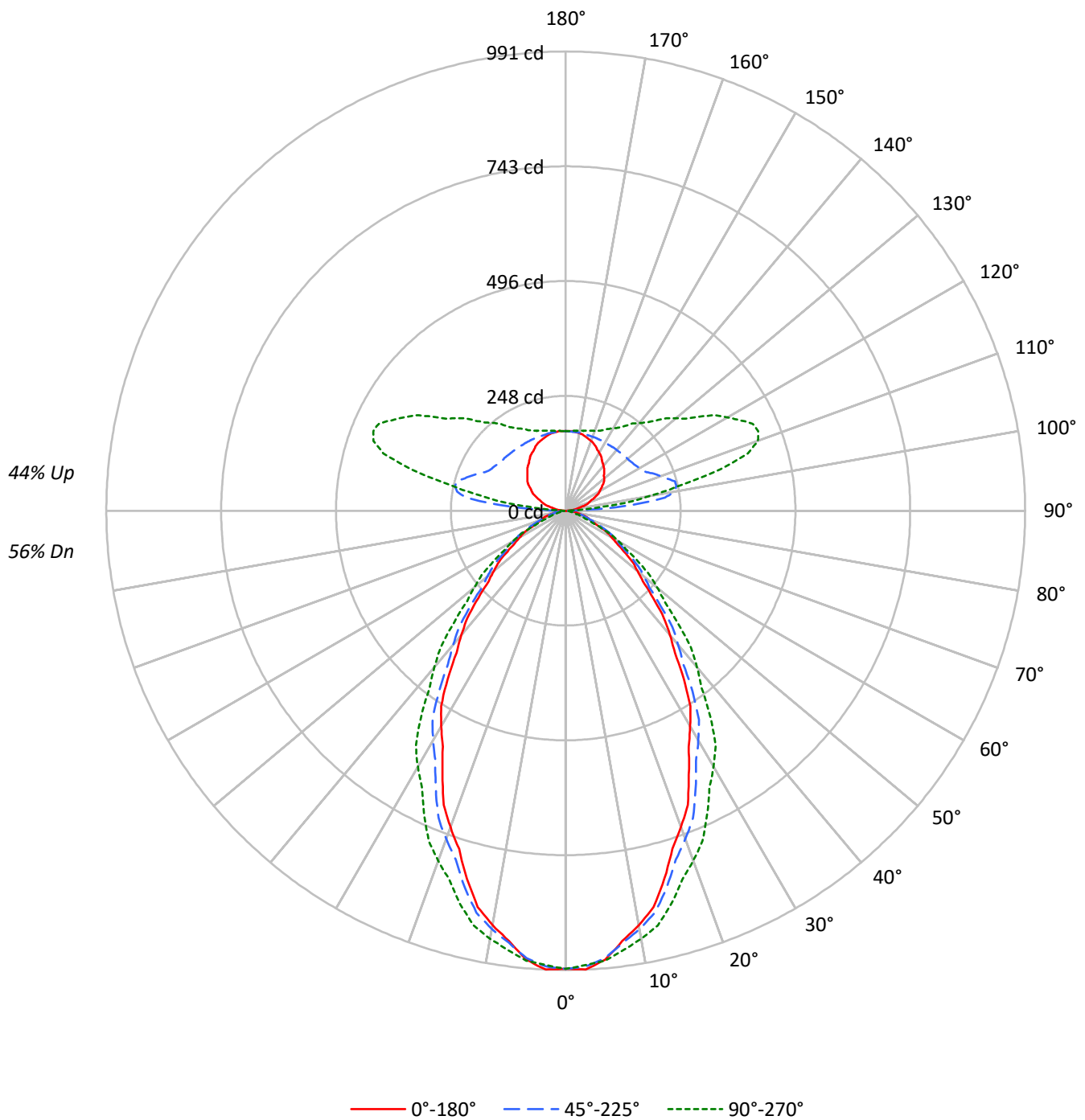
Lumens per Lamp: N/A
Luminaire Lumens: 2557.1 lumens
Efficiency: N/A
Efficacy: 52.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 48.6
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62
1	100	97	93	90	93	90	87	84	78	76	74	67	65	64	57	56	55
2	93	86	80	76	86	80	76	72	70	66	63	60	58	56	52	50	48
3	85	77	70	65	79	72	66	61	63	59	55	55	51	49	47	45	43
4	79	69	62	56	73	65	58	53	57	52	48	50	46	43	43	40	38
5	73	62	55	49	68	59	52	47	52	47	43	45	41	38	39	36	34
6	68	56	49	44	63	53	47	42	47	42	38	42	37	34	36	33	31
7	63	52	44	39	59	49	42	37	43	38	34	38	34	31	34	30	28
8	59	47	40	35	55	45	38	34	40	35	31	35	31	28	31	28	26
9	55	44	36	32	52	41	35	30	37	32	28	33	29	26	29	26	23
10	52	40	33	29	48	38	32	28	34	29	26	31	27	24	27	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6081	6081	6081
5°	6005	5984	6018
10°	5673	5725	5857
15°	5237	5358	5599
20°	4756	4935	5261
25°	4265	4498	4901
30°	3814	4064	4529
35°	3335	3576	4088
40°	2807	3030	3539
45°	2316	2516	2954
50°	1934	2109	2461
55°	1642	1809	2033
60°	1404	1568	1623
65°	1118	1320	1048
70°	991	1030	640
75°	917	834	392
80°	847	769	337
85°	762	706	275

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2954 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	3.5
10°-20°	235.9	9.2
20°-30°	305.5	11.9
30°-40°	299.2	11.7
40°-50°	229.0	9.0
50°-60°	152.6	6.0
60°-70°	83.3	3.3
70°-80°	34.7	1.4
80°-90°	10.7	0.4
90°-100°	83.9	3.3
100°-110°	220.5	8.6
110°-120°	228.7	8.9
120°-130°	183.4	7.2
130°-140°	143.9	5.6
140°-150°	110.5	4.3
150°-160°	79.6	3.1
160°-170°	48.7	1.9
170°-180°	16.4	0.6
0°-30°	632.0	24.7
0°-40°	931.2	36.4
0°-60°	1312.7	51.3
0°-90°	1441.5	56.4
90°-120°	533.1	20.8
90°-150°	970.9	38.0
90°-180°	1116.0	43.6
0°-180°	2557.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	989	989	989	989	989	
5°	972	963	969	971	975	90
15°	822	820	842	864	879	230
25°	628	630	663	692	722	289
35°	444	446	476	508	544	276
45°	266	271	289	311	340	208
55°	153	160	169	175	190	139
65°	77	83	91	79	72	80
75°	39	39	35	24	16	41
85°	11	11	10	6	4	12
90°	1	3	9	4	4	1
95°	11	43	144	74	51	12
105°	40	60	244	370	345	42
115°	71	86	195	390	445	70
125°	98	110	178	300	354	87
135°	117	129	172	242	275	91
145°	136	144	170	207	223	85
155°	153	158	170	187	192	70
165°	166	168	170	177	179	47
175°	172	172	171	173	173	16
180°	172	172	172	172	172	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	988.6	988.6	988.6	988.6	988.6
2.5°	991.0	982.2	984.4	984.4	981.6
5°	972.5	962.8	969.1	971.3	974.7
7.5°	936.4	929.1	940.5	949.0	955.9
10°	908.3	902.0	916.6	928.9	937.8
12.5°	875.7	870.4	888.5	905.0	916.7
15°	822.4	819.5	841.5	864.4	879.3
17.5°	765.4	764.0	789.3	816.0	835.0
20°	726.6	726.2	753.9	781.7	803.8
22.5°	687.4	688.3	717.5	746.4	771.5
25°	628.5	630.2	662.8	691.7	722.2
27.5°	574.1	574.9	608.6	639.1	671.7
30°	537.0	539.1	572.2	603.7	637.7
32.5°	499.9	502.3	534.7	567.3	601.9
35°	444.2	446.3	476.3	508.3	544.4
37.5°	386.8	389.6	416.3	446.6	482.0
40°	349.6	353.9	377.4	405.9	440.7
42.5°	313.9	319.1	340.9	368.0	399.4
45°	266.3	271.4	289.3	311.2	339.6
47.5°	225.4	231.2	245.0	263.9	288.1
50°	202.1	207.7	220.4	234.3	257.2
52.5°	181.7	187.2	198.5	209.3	228.8
55°	153.1	159.5	168.7	175.1	189.6
57.5°	129.7	135.8	143.1	146.0	154.8
60°	114.1	120.9	127.5	127.2	131.9
62.5°	99.9	105.6	112.3	107.7	107.9
65°	76.8	83.1	90.7	79.2	72.0
67.5°	62.0	63.4	71.1	55.2	46.7
70°	55.1	55.1	57.3	42.8	35.6
72.5°	48.5	48.5	46.5	34.8	27.2
75°	38.6	38.6	35.1	24.1	16.5
77.5°	29.8	29.4	26.9	18.0	12.0
80°	23.9	23.9	21.7	14.2	9.5
82.5°	18.7	18.7	16.8	11.1	7.1
85°	10.8	10.8	10.0	6.4	3.9
87.5°	4.0	4.5	5.2	3.0	2.6
90°	1.1	3.3	8.8	4.4	4.4
92.5°	4.6	22.3	49.4	21.9	14.1
95°	11.0	43.4	144.5	74.5	50.8
97.5°	19.2	47.7	216.3	172.0	126.7
100°	25.4	51.3	238.3	241.5	187.6
102.5°	30.7	54.8	244.5	300.8	254.7
105°	39.7	60.2	243.8	370.2	345.3
107.5°	49.0	68.0	229.9	406.2	412.2
110°	55.2	72.4	218.5	415.4	441.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	61.3	77.7	207.9	409.6	449.3
115°	70.6	85.7	195.3	389.6	444.7
117.5°	79.7	93.5	186.7	362.0	423.0
120°	85.0	97.9	183.2	343.4	402.7
122.5°	90.3	103.2	180.5	324.8	383.3
125°	98.2	110.1	177.6	300.2	354.2
127.5°	104.6	116.7	175.2	280.4	325.9
130°	108.1	121.1	174.3	268.0	310.0
132.5°	111.7	124.6	173.4	257.3	295.0
135°	117.0	128.8	172.1	242.4	274.7
137.5°	122.5	134.1	171.9	231.2	257.7
140°	126.9	137.7	171.0	222.3	247.2
142.5°	130.4	140.3	171.0	216.1	237.4
145°	135.7	144.3	169.9	206.7	222.9
147.5°	141.0	149.4	169.9	198.9	212.3
150°	144.5	152.1	169.9	194.4	205.2
152.5°	148.1	153.9	169.9	190.8	199.0
155°	153.4	157.7	169.9	186.6	192.0
157.5°	157.3	161.4	169.9	182.8	186.7
160°	160.0	163.2	169.9	181.0	183.2
162.5°	162.6	165.0	169.9	179.2	181.4
165°	165.5	167.7	169.9	176.6	178.7
167.5°	168.2	169.2	171.0	175.5	176.3
170°	169.9	171.0	171.0	175.4	175.4
172.5°	170.8	171.0	171.0	174.5	173.7
175°	172.1	172.1	171.0	173.2	173.2
177.5°	172.1	172.1	171.2	173.0	172.1
180°	172.1	172.1	172.1	172.1	172.1

(END OF REPORT)