

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

(formerly Eaton)

Brand: CORELITE

Report Number: P562167

Luminaire Tested: **SQ4-PW1-025U-100D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562167
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-025U-100D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

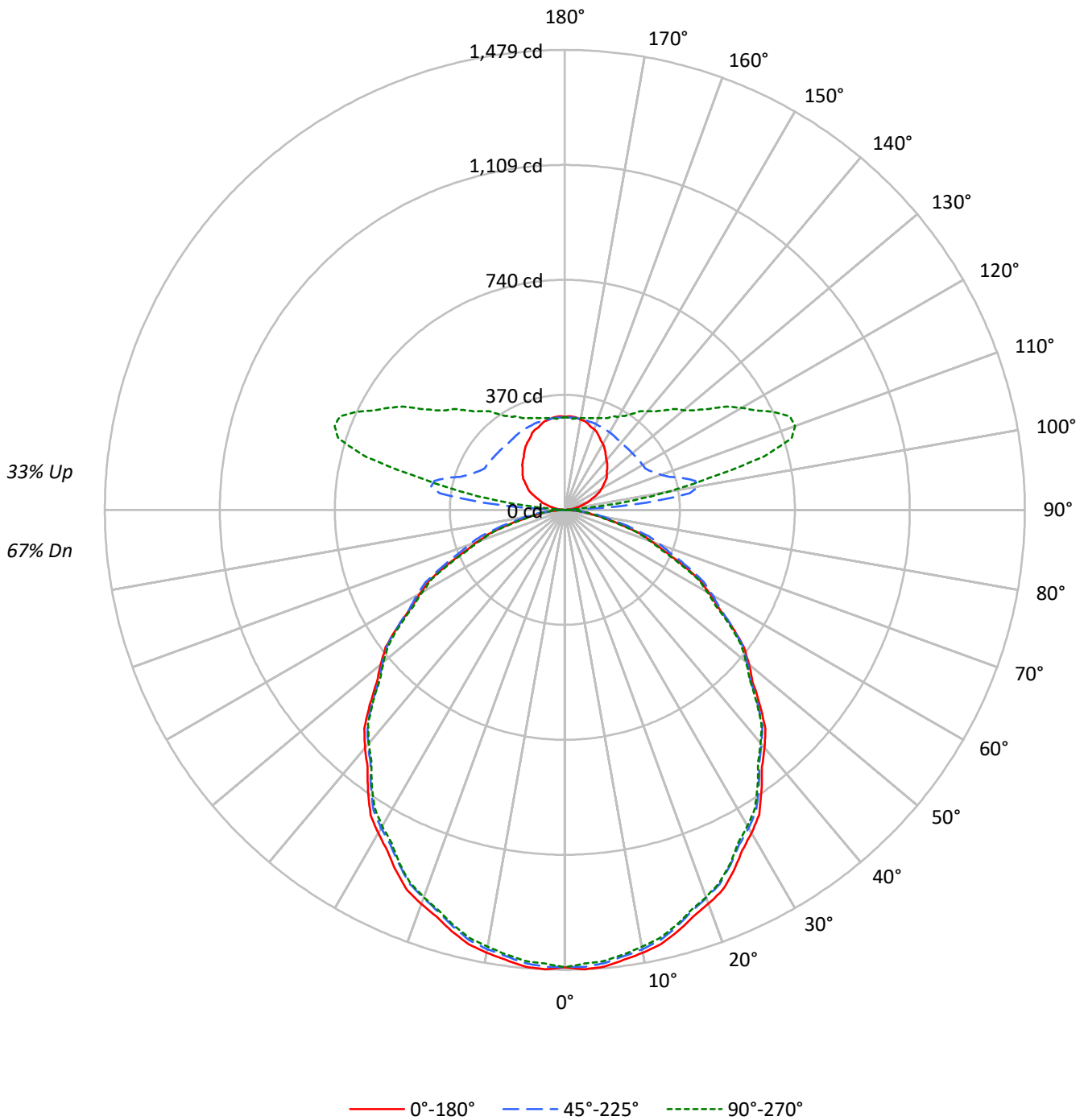
Lumens per Lamp: N/A
Luminaire Lumens: 5594.8 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 56.3
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	102	97	93	90	96	92	88	85	82	79	77	72	70	69	64	62	61	57
2	93	85	79	74	87	80	75	70	72	67	64	64	60	57	56	54	51	48
3	85	75	67	61	79	71	64	59	63	58	54	56	52	49	50	47	44	40
4	78	66	58	52	73	63	56	50	56	51	46	50	46	42	45	41	38	35
5	71	59	51	45	67	56	49	43	51	44	40	45	40	36	40	36	33	30
6	66	53	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	27
7	61	48	40	34	57	46	38	33	41	35	31	37	32	28	33	29	26	24
8	57	44	36	31	53	42	35	29	38	32	27	34	29	25	31	26	23	21
9	53	40	33	27	50	38	31	26	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	28	24	32	26	22	29	24	21	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13569	13569	13569
5°	13657	13549	13488
10°	13548	13438	13365
15°	13404	13256	13206
20°	13244	13041	13015
25°	13059	12822	12782
30°	12783	12589	12507
35°	12420	12244	12172
40°	12032	11845	11798
45°	11564	11412	11362
50°	11085	10992	10917
55°	10568	10568	10401
60°	9922	10114	9756
65°	9080	9534	8855
70°	8004	8772	7796
75°	6837	7853	6652
80°	5303	6610	5372
85°	3430	5071	4531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	2.5
10°-20°	391.0	7.0
20°-30°	580.0	10.4
30°-40°	678.6	12.1
40°-50°	675.6	12.1
50°-60°	583.4	10.4
60°-70°	419.9	7.5
70°-80°	220.2	3.9
80°-90°	54.6	1.0
90°-100°	135.9	2.4
100°-110°	386.8	6.9
110°-120°	370.6	6.6
120°-130°	293.3	5.2
130°-140°	235.4	4.2
140°-150°	184.3	3.3
150°-160°	134.8	2.4
160°-170°	83.5	1.5
170°-180°	28.3	0.5
0°-30°	1109.5	19.8
0°-40°	1788.1	32.0
0°-60°	3047.1	54.5
0°-90°	3741.8	66.9
90°-120°	893.2	16.0
90°-150°	1606.2	28.7
90°-180°	1853.0	33.1
0°-180°	5594.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1471	1471	1471	1471	1471	
5°	1475	1458	1463	1459	1456	140
15°	1403	1386	1388	1385	1383	396
25°	1283	1261	1260	1252	1256	590
35°	1103	1088	1087	1077	1081	689
45°	886	879	875	872	871	684
55°	657	656	657	648	647	586
65°	416	429	437	420	406	412
75°	192	210	220	206	187	206
85°	32	42	48	45	43	43
90°	0	0	0	0	0	2
95°	15	59	263	91	56	17
105°	60	91	394	696	662	64
115°	112	135	299	633	744	110
125°	158	175	285	473	566	141
135°	193	209	282	400	452	149
145°	227	239	284	346	377	142
155°	260	266	291	313	326	120
165°	287	288	294	301	305	81
175°	301	299	298	296	294	28
180°	298	298	298	298	298	

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CATALOG NUMBER: SQ4-PW1-025U-100D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1470.7	1470.7	1470.7	1470.7	1470.7
2.5°	1479.0	1466.8	1470.7	1467.4	1460.3
5°	1474.6	1458.1	1462.9	1459.0	1456.4
7.5°	1459.5	1444.3	1447.9	1443.7	1442.2
10°	1446.1	1430.9	1434.4	1429.2	1426.6
12.5°	1430.5	1414.3	1417.8	1412.6	1411.1
15°	1403.3	1385.6	1387.8	1385.1	1382.6
17.5°	1371.7	1353.7	1354.1	1349.9	1349.4
20°	1348.9	1329.9	1328.2	1323.0	1325.6
22.5°	1324.0	1304.0	1302.2	1295.1	1298.6
25°	1282.8	1261.3	1259.5	1251.8	1255.6
27.5°	1235.1	1213.8	1213.9	1203.1	1207.1
30°	1199.9	1179.6	1181.7	1168.9	1174.0
32.5°	1162.6	1144.3	1145.5	1132.6	1137.7
35°	1102.7	1087.5	1087.1	1076.9	1080.7
37.5°	1041.5	1028.1	1026.0	1020.0	1021.1
40°	999.0	987.6	983.5	979.6	979.6
42.5°	954.5	944.1	939.9	937.1	936.1
45°	886.3	878.7	874.6	872.0	870.8
47.5°	818.9	811.8	808.3	806.5	805.2
50°	772.3	767.2	765.8	761.9	760.6
52.5°	725.6	722.6	721.2	716.3	715.0
55°	657.0	655.7	657.0	647.9	646.6
57.5°	585.4	587.5	591.6	579.4	576.4
60°	537.7	542.8	548.1	533.7	528.7
62.5°	489.0	497.1	504.6	488.1	481.0
65°	415.9	428.6	436.7	419.5	405.6
67.5°	345.5	361.2	370.8	352.3	336.6
70°	296.7	314.5	325.2	306.7	289.0
72.5°	254.2	274.0	282.7	265.2	247.5
75°	191.8	209.5	220.3	205.6	186.6
77.5°	136.1	152.8	161.7	148.9	133.2
80°	99.8	117.5	124.4	113.7	101.1
82.5°	70.7	85.4	90.2	83.8	75.2
85°	32.4	42.5	47.9	45.3	42.8
87.5°	8.3	15.4	19.7	19.7	20.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.5	24.1	55.8	16.2	12.2
95°	14.7	58.6	263.1	91.1	56.1
97.5°	27.1	68.6	405.3	290.0	198.7
100°	35.7	74.5	436.1	441.7	340.3
102.5°	45.3	81.0	429.3	565.4	476.8
105°	60.1	91.2	394.1	696.2	661.8
107.5°	75.2	103.0	353.1	733.1	763.7
110°	85.6	111.7	329.5	719.0	787.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	95.6	120.3	313.6	685.6	783.6
115°	111.7	135.0	298.9	633.1	743.5
117.5°	125.9	147.7	290.1	575.8	692.7
120°	137.2	155.5	289.2	543.0	655.0
122.5°	146.3	164.6	287.0	514.2	618.3
125°	157.7	174.8	285.3	473.4	566.0
127.5°	170.0	186.1	284.3	449.0	525.3
130°	176.4	192.5	283.0	431.9	498.5
132.5°	183.2	198.8	283.0	418.7	479.9
135°	192.8	208.9	281.9	399.9	452.0
137.5°	201.9	217.5	281.7	383.9	429.0
140°	208.7	224.8	281.3	370.7	414.0
142.5°	216.4	229.8	282.6	360.2	399.0
145°	227.4	239.1	284.1	346.1	377.1
147.5°	236.8	248.1	286.6	331.8	358.6
150°	245.0	252.8	287.5	327.1	345.9
152.5°	251.3	259.6	288.4	320.7	338.2
155°	259.7	265.8	290.9	312.8	325.5
157.5°	270.2	273.8	291.5	309.2	318.3
160°	275.6	278.4	293.8	306.4	314.2
162.5°	278.8	282.0	294.2	304.1	310.1
165°	287.0	288.1	294.3	300.7	305.1
167.5°	292.5	291.5	296.9	299.8	301.6
170°	294.3	293.8	296.0	296.6	298.9
172.5°	298.4	296.5	297.4	295.7	297.5
175°	300.6	298.9	297.7	296.0	293.8
177.5°	301.5	298.8	297.4	295.6	296.0
180°	298.3	298.3	298.3	298.3	298.3

(END OF REPORT)