

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: P561809

Luminaire Tested: **SQ4-PR1-025U-100D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561809
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-025U-100D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

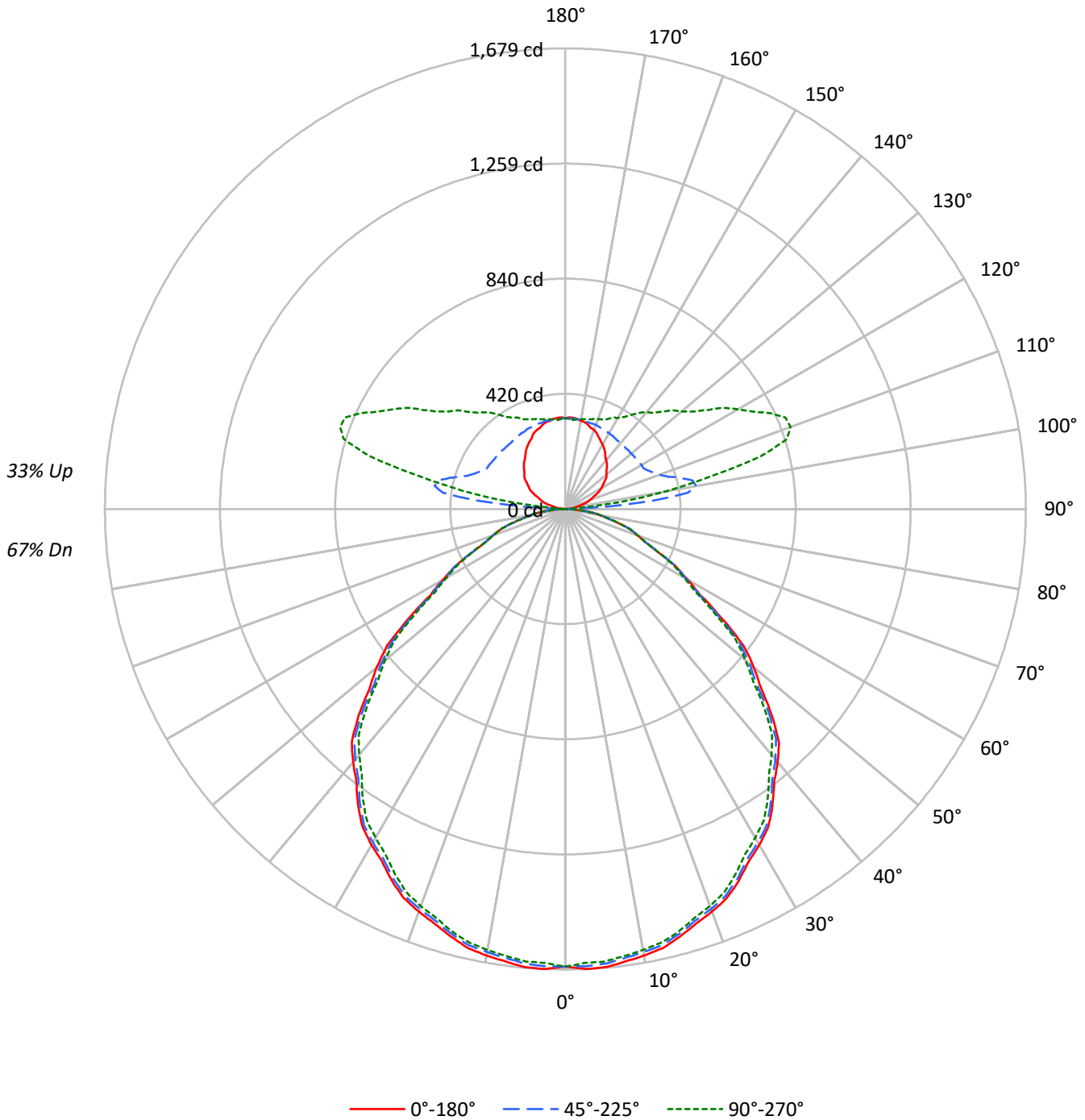
Lumens per Lamp: N/A
Luminaire Lumens: 6225.9 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	98	94	90	96	92	89	86	82	79	77	73	71	69	64	63	61	57
2	93	86	80	75	88	81	76	71	72	68	65	64	61	58	57	54	52	49
3	85	76	68	63	80	72	65	60	64	59	55	57	53	50	51	48	45	42
4	78	67	59	53	74	64	57	51	57	52	47	51	47	43	46	42	39	36
5	72	60	52	46	68	57	50	44	51	45	41	46	41	37	41	37	34	31
6	66	54	46	40	63	52	44	39	47	40	36	42	37	33	37	33	30	28
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27	25
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	31	27	24	22
9	53	41	33	28	50	39	32	27	36	30	25	32	27	24	29	25	22	20
10	50	38	30	25	47	36	29	25	33	27	23	30	25	21	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15393	15393	15393
5°	15532	15412	15332
10°	15482	15375	15294
15°	15414	15319	15236
20°	15337	15238	15125
25°	15229	15126	14951
30°	15065	14958	14743
35°	14843	14713	14502
40°	14505	14348	14089
45°	13913	13669	13388
50°	12871	12562	12314
55°	11234	10980	10748
60°	9466	9387	9202
65°	8189	8219	8156
70°	7521	7559	7559
75°	7222	7222	7276
80°	6796	6870	6796
85°	5473	6087	6087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.8	2.5
10°-20°	451.4	7.3
20°-30°	680.9	10.9
30°-40°	811.3	13.0
40°-50°	799.8	12.8
50°-60°	611.3	9.8
60°-70°	378.3	6.1
70°-80°	214.8	3.5
80°-90°	65.3	1.0
90°-100°	150.8	2.4
100°-110°	428.9	6.9
110°-120°	411.0	6.6
120°-130°	325.3	5.2
130°-140°	261.1	4.2
140°-150°	204.4	3.3
150°-160°	149.6	2.4
160°-170°	92.6	1.5
170°-180°	31.4	0.5
0°-30°	1290.0	20.7
0°-40°	2101.3	33.8
0°-60°	3512.4	56.4
0°-90°	4170.9	67.0
90°-120°	990.7	15.9
90°-150°	1781.4	28.6
90°-180°	2055.0	33.0
0°-180°	6225.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1668	1668	1668	1668	1668	
5°	1677	1659	1664	1658	1656	159
15°	1614	1597	1604	1598	1595	455
25°	1496	1478	1486	1470	1469	688
35°	1318	1302	1306	1289	1288	822
45°	1066	1052	1048	1029	1026	817
55°	698	687	683	671	668	626
65°	375	372	376	374	374	380
75°	203	203	203	204	204	214
85°	52	54	58	58	58	60
90°	0	0	0	0	0	3
95°	16	65	292	101	62	19
105°	67	101	437	772	734	71
115°	124	150	332	702	825	122
125°	175	194	316	525	628	157
135°	214	232	313	444	501	165
145°	252	265	315	384	418	158
155°	288	295	323	347	361	133
165°	318	320	326	334	338	90
175°	333	332	330	328	326	32
180°	331	331	331	331	331	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1668.4	1668.4	1668.4	1668.4	1668.4
2.5°	1678.8	1664.2	1668.4	1664.8	1656.9
5°	1677.1	1658.8	1664.1	1658.3	1655.5
7.5°	1664.1	1646.1	1651.5	1645.7	1644.0
10°	1652.6	1635.8	1641.1	1635.3	1632.5
12.5°	1640.0	1622.0	1628.5	1621.5	1618.7
15°	1613.8	1597.0	1603.8	1597.9	1595.1
17.5°	1585.1	1567.1	1573.9	1567.2	1563.5
20°	1562.1	1545.2	1552.0	1541.9	1540.5
22.5°	1536.8	1519.9	1526.7	1513.2	1512.9
25°	1496.0	1477.7	1485.9	1470.1	1468.7
27.5°	1447.4	1430.5	1437.3	1421.2	1419.5
30°	1414.1	1397.2	1404.0	1386.7	1383.9
32.5°	1376.1	1360.4	1366.1	1348.8	1347.1
35°	1317.8	1302.3	1306.3	1289.0	1287.6
37.5°	1251.4	1237.3	1239.6	1220.6	1219.2
40°	1204.3	1190.2	1191.3	1171.2	1169.8
42.5°	1152.5	1138.5	1137.3	1117.1	1115.7
45°	1066.3	1052.2	1047.6	1028.9	1026.1
47.5°	968.0	954.0	945.3	930.0	928.1
50°	896.7	882.7	875.2	862.1	857.9
52.5°	819.7	805.6	799.3	787.4	783.2
55°	698.4	687.2	682.6	671.0	668.2
57.5°	583.2	575.6	574.2	563.0	561.9
60°	513.0	508.8	508.7	498.7	498.7
62.5°	453.2	450.2	452.4	445.8	444.6
65°	375.1	372.3	376.5	373.6	373.6
67.5°	313.3	313.3	315.9	314.7	314.7
70°	278.8	278.8	280.2	280.2	280.2
72.5°	247.7	246.6	250.3	250.3	249.2
75°	202.6	202.6	202.6	204.1	204.1
77.5°	157.8	158.1	159.2	158.9	157.8
80°	127.9	129.3	129.3	127.9	127.9
82.5°	98.0	99.4	99.4	99.1	98.0
85°	51.7	54.5	57.5	57.5	57.5
87.5°	14.9	19.4	23.0	23.0	21.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.0	26.7	61.9	18.0	13.6
95°	16.4	64.9	291.8	101.0	62.3
97.5°	30.1	76.1	449.5	321.6	220.4
100°	39.6	82.7	483.7	489.9	377.4
102.5°	50.2	89.8	476.1	627.1	528.8
105°	66.7	101.1	437.1	772.1	734.0
107.5°	83.4	114.3	391.6	813.0	847.0
110°	95.0	123.9	365.4	797.4	873.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	106.0	133.5	347.8	760.4	869.1
115°	123.9	149.7	331.5	702.2	824.6
117.5°	139.6	163.9	321.8	638.6	768.2
120°	152.2	172.5	320.8	602.2	726.4
122.5°	162.3	182.6	318.3	570.3	685.7
125°	174.8	193.9	316.4	525.0	627.7
127.5°	188.6	206.4	315.4	497.9	582.5
130°	195.6	213.4	313.8	479.1	552.9
132.5°	203.2	220.5	313.8	464.3	532.2
135°	213.8	231.7	312.6	443.5	501.3
137.5°	223.9	241.3	312.5	425.8	475.7
140°	231.5	249.3	312.0	411.2	459.1
142.5°	240.0	254.9	313.5	399.5	442.5
145°	252.2	265.1	315.1	383.8	418.3
147.5°	262.7	275.2	317.9	368.0	397.8
150°	271.7	280.3	318.9	362.8	383.7
152.5°	278.8	287.9	319.9	355.7	375.1
155°	288.1	294.8	322.7	346.9	361.0
157.5°	299.6	303.7	323.3	342.9	353.0
160°	305.7	308.7	325.8	339.8	348.4
162.5°	309.2	312.8	326.3	337.3	343.9
165°	318.3	319.5	326.4	333.5	338.4
167.5°	324.4	323.3	329.3	332.5	334.5
170°	326.4	325.8	328.3	329.0	331.5
172.5°	331.0	328.9	329.8	328.0	329.9
175°	333.3	331.5	330.2	328.3	325.8
177.5°	334.4	331.4	329.8	327.8	328.3
180°	330.8	330.8	330.8	330.8	330.8

(END OF REPORT)