

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: P523651

Luminaire Tested: **SQ4-PP3-025U-100D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523651
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-100D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM 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: 6250.7 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

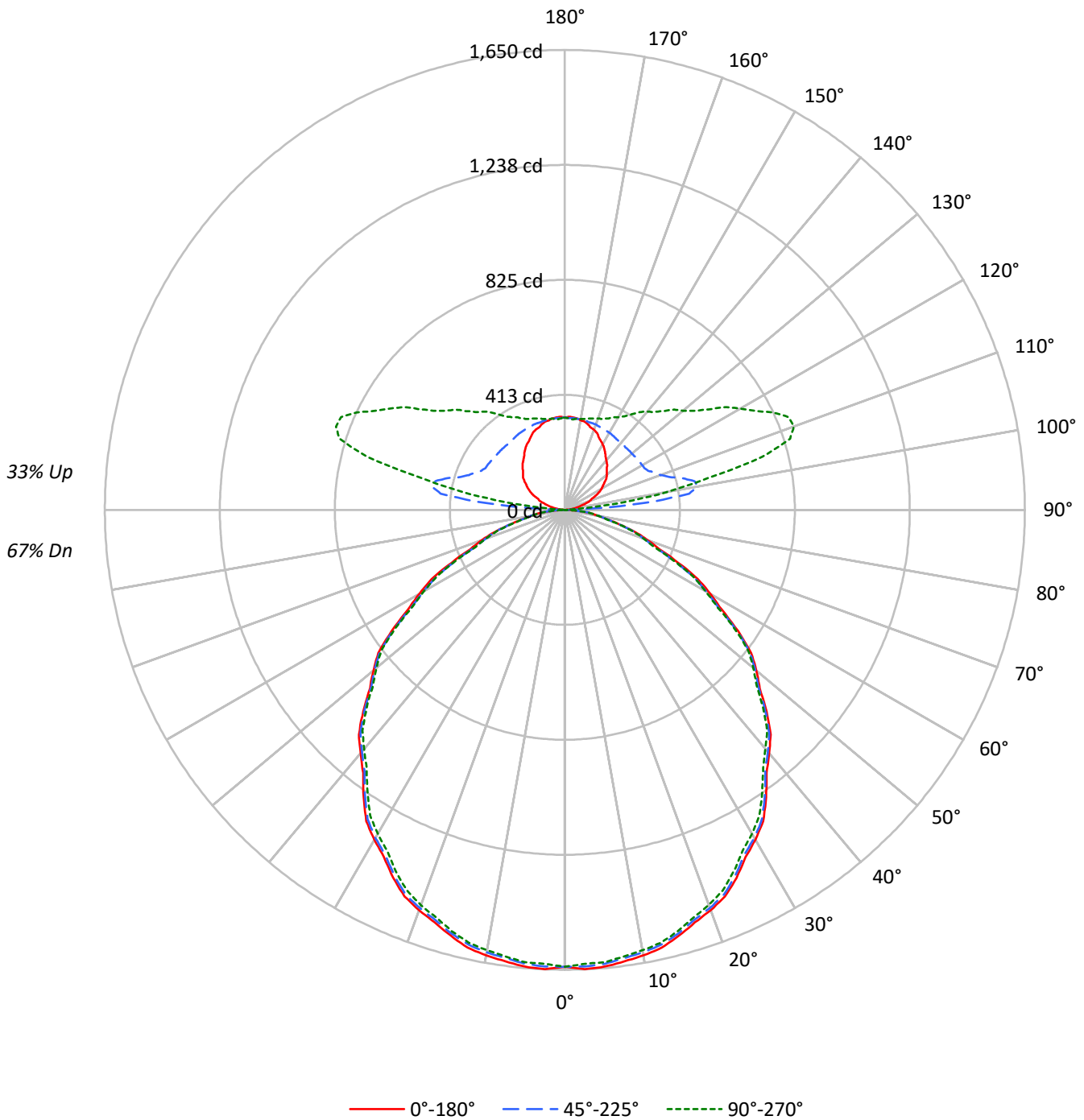
Input Watts (W): 56.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	79	74	87	81	75	71	72	68	64	64	61	58	57	54	52	48
3	85	75	68	62	80	71	65	59	64	59	54	57	53	49	50	47	44	41
4	78	67	59	53	73	63	56	51	57	51	46	51	46	42	45	41	38	35
5	72	60	51	45	67	57	49	44	51	45	40	46	41	37	41	37	34	31
6	66	54	45	40	62	51	44	38	46	40	35	41	36	32	37	33	30	27
7	61	49	40	35	58	46	39	34	42	36	31	38	33	29	34	30	26	24
8	57	44	36	31	54	42	35	30	38	32	28	35	29	26	31	27	24	21
9	53	40	33	28	50	39	32	27	35	29	25	32	27	23	29	24	21	19
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	27	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15125	15125	15125
5°	15235	15142	15089
10°	15210	15102	15035
15°	15109	15027	14945
20°	15009	14925	14812
25°	14830	14728	14582
30°	14556	14479	14296
35°	14176	14079	13900
40°	13722	13635	13480
45°	13347	13254	13122
50°	12868	12786	12661
55°	12202	12040	11948
60°	11108	10789	10737
65°	9787	9379	9346
70°	8449	8101	8101
75°	7272	7169	7069
80°	6413	6487	6333
85°	5018	5473	5473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	2.5
10°-20°	442.6	7.1
20°-30°	663.0	10.6
30°-40°	777.6	12.4
40°-50°	780.0	12.5
50°-60°	665.5	10.6
60°-70°	434.0	6.9
70°-80°	217.7	3.5
80°-90°	60.2	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°	1260.6	20.2
0°-40°	2038.2	32.6
0°-60°	3483.7	55.7
0°-90°	4195.7	67.1
90°-120°	990.7	15.8
90°-150°	1781.4	28.5
90°-180°	2055.0	32.9
0°-180°	6250.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1639	1639	1639	1639	1639	
5°	1645	1630	1635	1629	1629	156
15°	1582	1566	1573	1567	1565	446
25°	1457	1440	1447	1434	1432	670
35°	1259	1246	1250	1236	1234	786
45°	1023	1016	1016	1006	1006	788
55°	759	756	748	744	743	674
65°	448	440	430	427	428	447
75°	204	204	201	200	198	221
85°	47	52	52	52	52	56
90°	0	0	0	0	0	2
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°	1639.3	1639.3	1639.3	1639.3	1639.3
2.5°	1649.6	1636.2	1639.3	1636.9	1630.1
5°	1645.0	1629.6	1635.0	1629.2	1629.2
7.5°	1633.8	1617.0	1622.3	1616.6	1616.3
10°	1623.5	1606.6	1612.0	1606.2	1604.8
12.5°	1608.6	1591.7	1598.2	1591.3	1591.0
15°	1581.8	1566.4	1573.2	1567.4	1564.6
17.5°	1551.7	1534.8	1543.0	1535.0	1533.8
20°	1528.7	1511.8	1520.1	1508.6	1508.6
22.5°	1501.1	1484.2	1493.6	1478.7	1478.7
25°	1456.8	1440.0	1446.8	1433.8	1432.4
27.5°	1404.3	1387.7	1394.8	1380.1	1379.8
30°	1366.3	1350.9	1359.1	1343.3	1341.9
32.5°	1324.9	1310.6	1316.6	1300.8	1299.4
35°	1258.6	1245.9	1250.0	1235.6	1234.1
37.5°	1188.7	1175.8	1180.4	1168.0	1167.5
40°	1139.3	1130.9	1132.1	1122.0	1119.2
42.5°	1093.3	1083.8	1085.0	1074.9	1074.4
45°	1022.9	1015.9	1015.8	1005.7	1005.7
47.5°	948.2	942.9	941.3	933.0	932.7
50°	896.5	892.3	890.8	883.6	882.1
52.5°	842.5	840.5	835.6	829.6	829.3
55°	758.6	755.8	748.5	744.2	742.8
57.5°	667.5	661.9	653.7	647.4	648.5
60°	602.0	596.4	584.7	581.9	581.9
62.5°	538.8	532.0	520.4	516.4	518.7
65°	448.3	439.8	429.6	426.7	428.1
67.5°	366.1	358.5	347.4	347.4	346.3
70°	313.2	309.0	300.3	300.3	300.3
72.5°	266.1	264.1	257.7	257.7	256.6
75°	204.0	204.0	201.1	199.7	198.3
77.5°	152.9	153.4	152.0	150.5	148.0
80°	120.7	123.5	122.1	120.7	119.2
82.5°	90.8	93.6	93.4	90.8	90.5
85°	47.4	51.6	51.7	51.7	51.7
87.5°	12.6	17.1	18.4	18.4	19.5
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)