

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: P523647

Luminaire Tested: **SQ4-PP3-025U-100D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523647
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5891.0 lumens
Efficiency: N/A
Efficacy: 104.5 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

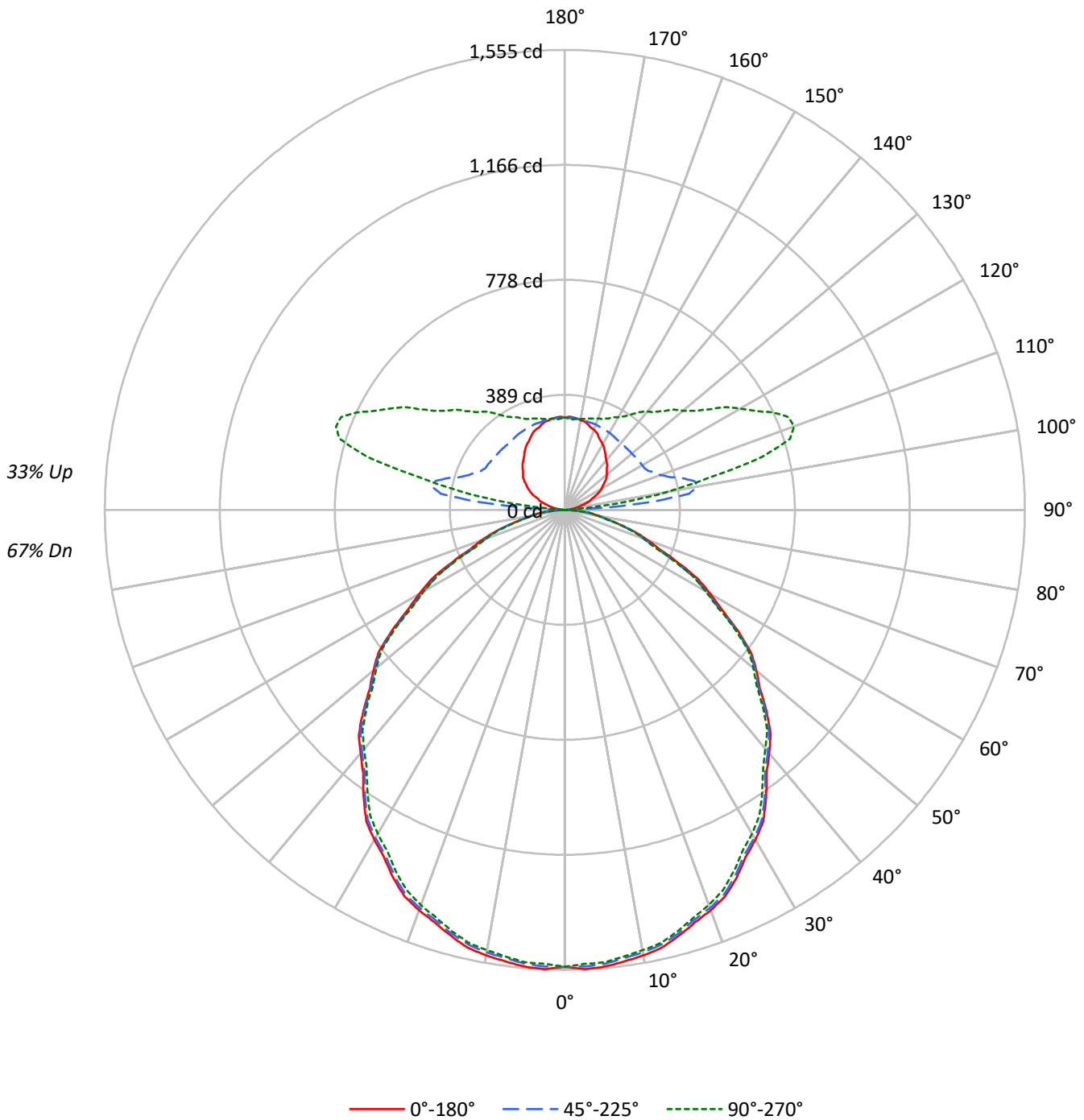
Input Watts (W): 56.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P523647

CATALOG NUMBER: SQ4-PP3-025U-100D-92765-1D-UNV-STD-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P523647

CATALOG NUMBER: SQ4-PP3-025U-100D-92765-1D-UNV-STD-W-4 (3500K)

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°	14254	14254	14254
5°	14359	14271	14221
10°	14335	14233	14170
15°	14240	14162	14084
20°	14145	14066	13959
25°	13977	13880	13743
30°	13719	13646	13473
35°	13359	13268	13100
40°	12932	12851	12704
45°	12579	12491	12367
50°	12127	12050	11933
55°	11499	11348	11260
60°	10468	10169	10119
65°	9224	8839	8809
70°	7963	7634	7634
75°	6855	6759	6662
80°	6041	6115	5972
85°	4732	5155	5155



TEST NUMBER: P523647

CATALOG NUMBER: SQ4-PP3-025U-100D-92765-1D-UNV-STD-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.1	2.5
10°-20°	417.1	7.1
20°-30°	624.8	10.6
30°-40°	732.9	12.4
40°-50°	735.2	12.5
50°-60°	627.2	10.6
60°-70°	409.0	6.9
70°-80°	205.2	3.5
80°-90°	56.8	1.0
90°-100°	142.1	2.4
100°-110°	404.2	6.9
110°-120°	387.3	6.6
120°-130°	306.6	5.2
130°-140°	246.0	4.2
140°-150°	192.6	3.3
150°-160°	140.9	2.4
160°-170°	87.3	1.5
170°-180°	29.6	0.5
0°-30°	1188.0	20.2
0°-40°	1920.9	32.6
0°-60°	3283.2	55.7
0°-90°	3954.2	67.1
90°-120°	933.6	15.8
90°-150°	1678.9	28.5
90°-180°	1937.0	32.9
0°-180°	5891.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1545	1545	1545	1545	1545	
5°	1550	1536	1541	1536	1536	147
15°	1491	1476	1483	1477	1474	421
25°	1373	1357	1364	1351	1350	631
35°	1186	1174	1178	1164	1163	741
45°	964	958	957	948	948	742
55°	715	712	706	701	700	635
65°	422	414	405	402	404	422
75°	192	192	190	188	187	209
85°	45	49	49	49	49	52
90°	0	0	0	0	0	2
95°	15	61	275	95	59	18
105°	63	95	412	728	692	66
115°	117	141	312	662	777	115
125°	165	183	298	495	592	147
135°	202	218	295	418	472	156
145°	238	250	297	362	394	148
155°	272	278	304	327	340	126
165°	300	301	308	314	319	84
175°	314	312	311	309	307	30
180°	312	312	312	312	312	

TEST NUMBER: P523647

CATALOG NUMBER: SQ4-PP3-025U-100D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1545.0	1545.0	1545.0	1545.0	1545.0
2.5°	1554.7	1542.0	1545.0	1542.6	1536.3
5°	1550.4	1535.8	1540.9	1535.5	1535.5
7.5°	1539.8	1523.9	1529.0	1523.6	1523.3
10°	1530.1	1514.2	1519.2	1513.8	1512.5
12.5°	1516.0	1500.1	1506.2	1499.7	1499.5
15°	1490.8	1476.2	1482.7	1477.2	1474.5
17.5°	1462.4	1446.5	1454.2	1446.6	1445.6
20°	1440.7	1424.8	1432.6	1421.7	1421.7
22.5°	1414.7	1398.8	1407.7	1393.6	1393.6
25°	1373.0	1357.1	1363.5	1351.3	1350.0
27.5°	1323.4	1307.8	1314.5	1300.7	1300.4
30°	1287.7	1273.1	1280.9	1266.0	1264.7
32.5°	1248.7	1235.2	1240.8	1225.9	1224.6
35°	1186.1	1174.2	1178.0	1164.4	1163.1
37.5°	1120.3	1108.1	1112.5	1100.8	1100.3
40°	1073.7	1065.8	1067.0	1057.4	1054.8
42.5°	1030.4	1021.4	1022.6	1013.1	1012.5
45°	964.1	957.5	957.3	947.8	947.8
47.5°	893.7	888.6	887.2	879.3	879.0
50°	844.9	840.9	839.5	832.7	831.4
52.5°	794.0	792.2	787.5	781.8	781.5
55°	714.9	712.3	705.5	701.4	700.0
57.5°	629.1	623.8	616.1	610.2	611.2
60°	567.3	562.0	551.1	548.4	548.4
62.5°	507.8	501.4	490.4	486.7	488.8
65°	422.5	414.5	404.9	402.2	403.5
67.5°	345.0	337.9	327.4	327.4	326.3
70°	295.2	291.2	283.0	283.0	283.0
72.5°	250.8	248.9	242.9	242.9	241.8
75°	192.3	192.3	189.6	188.2	186.9
77.5°	144.1	144.6	143.3	141.8	139.5
80°	113.7	116.4	115.1	113.7	112.4
82.5°	85.6	88.2	88.0	85.6	85.3
85°	44.7	48.7	48.7	48.7	48.7
87.5°	11.9	16.2	17.3	17.4	18.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.7	25.1	58.3	17.0	12.8
95°	15.4	61.2	275.0	95.2	58.7
97.5°	28.3	71.7	423.6	303.1	207.7
100°	37.3	77.9	455.8	461.7	355.7
102.5°	47.3	84.6	448.7	591.0	498.4
105°	62.8	95.3	412.0	727.7	691.7
107.5°	78.6	107.7	369.0	766.2	798.2
110°	89.5	116.7	344.4	751.5	823.3

TEST NUMBER: P523647

CATALOG NUMBER: SQ4-PP3-025U-100D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	99.9	125.8	327.8	716.6	819.1
115°	116.8	141.1	312.4	661.8	777.1
117.5°	131.6	154.4	303.3	601.8	724.0
120°	143.4	162.6	302.3	567.6	684.6
122.5°	152.9	172.1	299.9	537.5	646.2
125°	164.8	182.8	298.2	494.8	591.6
127.5°	177.7	194.5	297.2	469.3	549.0
130°	184.3	201.2	295.8	451.5	521.0
132.5°	191.5	207.8	295.8	437.6	501.6
135°	201.5	218.3	294.6	417.9	472.4
137.5°	211.0	227.4	294.5	401.3	448.4
140°	218.1	234.9	294.0	387.5	432.7
142.5°	226.2	240.2	295.4	376.5	417.1
145°	237.7	249.9	297.0	361.7	394.2
147.5°	247.5	259.4	299.6	346.8	374.9
150°	256.1	264.2	300.5	341.9	361.6
152.5°	262.7	271.3	301.5	335.2	353.5
155°	271.5	277.9	304.1	326.9	340.2
157.5°	282.4	286.2	304.7	323.1	332.7
160°	288.1	291.0	307.0	320.3	328.4
162.5°	291.4	294.8	307.5	317.9	324.1
165°	299.9	301.1	307.6	314.3	318.9
167.5°	305.7	304.7	310.4	313.4	315.2
170°	307.6	307.1	309.4	310.1	312.4
172.5°	311.9	309.9	310.8	309.1	311.0
175°	314.2	312.4	311.2	309.4	307.0
177.5°	315.1	312.3	310.8	309.0	309.4
180°	311.8	311.8	311.8	311.8	311.8

(END OF REPORT)