

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: P523649

Luminaire Tested: **SQ4-PP3-025U-100D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523649
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6095.5 lumens
Efficiency: N/A
Efficacy: 108.3 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

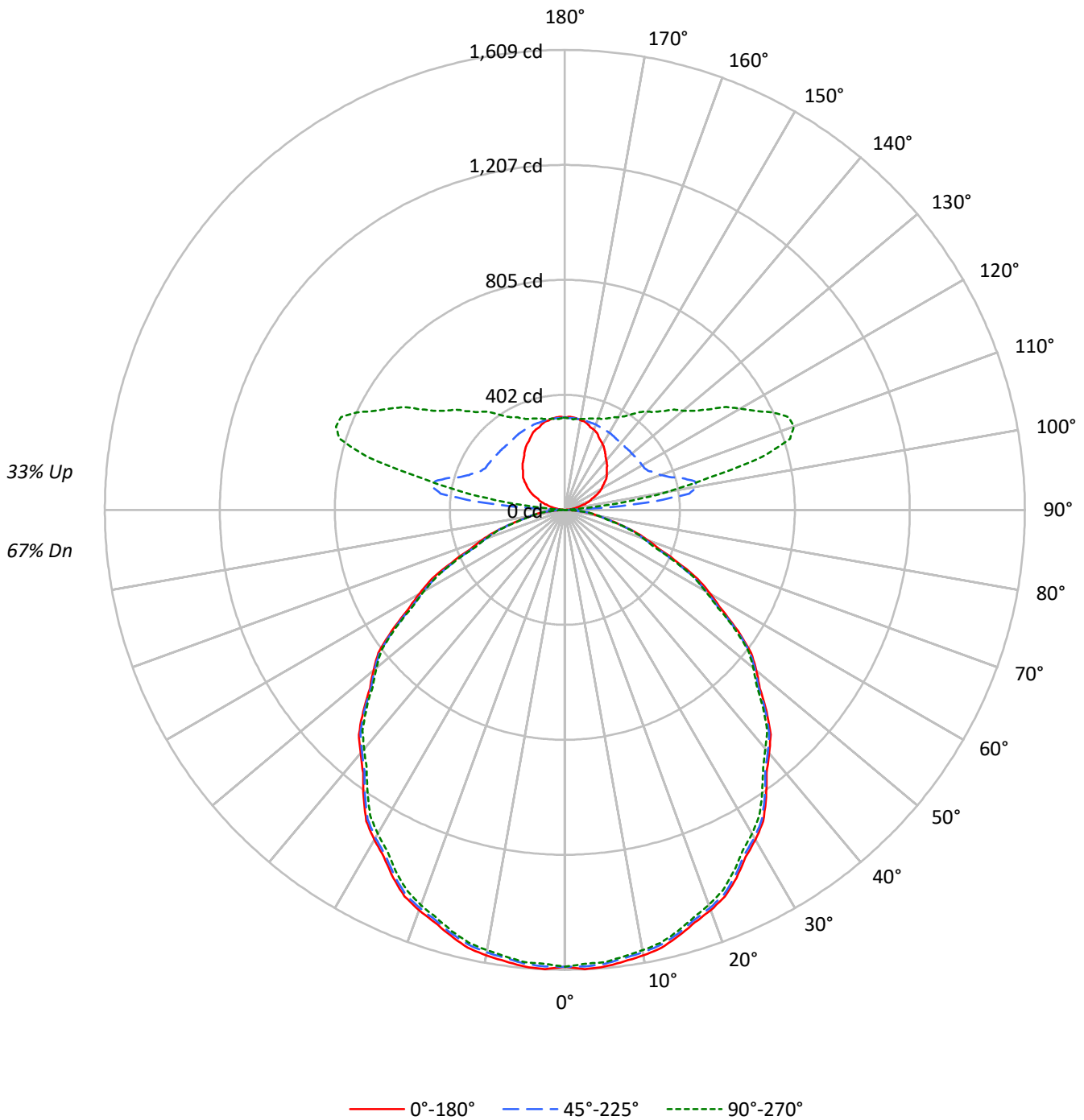
Input Watts (W): 56.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P523649

CATALOG NUMBER: SQ4-PP3-025U-100D-92765-1D-UNV-STD-W-4 (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P523649

CATALOG NUMBER: SQ4-PP3-025U-100D-92765-1D-UNV-STD-W-4 (4500K)

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°	14749	14749	14749
5°	14857	14766	14715
10°	14832	14727	14662
15°	14734	14653	14573
20°	14636	14554	14444
25°	14463	14363	14219
30°	14195	14120	13941
35°	13823	13729	13555
40°	13381	13297	13145
45°	13015	12924	12796
50°	12549	12467	12347
55°	11900	11741	11651
60°	10832	10522	10470
65°	9542	9145	9114
70°	8238	7898	7898
75°	7090	6990	6891
80°	6254	6328	6179
85°	4891	5335	5335



TEST NUMBER: P523649

CATALOG NUMBER: SQ4-PP3-025U-100D-92765-1D-UNV-STD-W-4 (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	2.5
10°-20°	431.6	7.1
20°-30°	646.5	10.6
30°-40°	758.3	12.4
40°-50°	760.7	12.5
50°-60°	648.9	10.6
60°-70°	423.2	6.9
70°-80°	212.3	3.5
80°-90°	58.8	1.0
90°-100°	147.0	2.4
100°-110°	418.3	6.9
110°-120°	400.8	6.6
120°-130°	317.2	5.2
130°-140°	254.6	4.2
140°-150°	199.3	3.3
150°-160°	145.8	2.4
160°-170°	90.3	1.5
170°-180°	30.7	0.5
0°-30°	1229.3	20.2
0°-40°	1987.6	32.6
0°-60°	3397.2	55.7
0°-90°	4091.5	67.1
90°-120°	966.1	15.8
90°-150°	1737.2	28.5
90°-180°	2004.0	32.9
0°-180°	6095.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1599	1599	1599	1599	1599	
5°	1604	1589	1594	1589	1589	152
15°	1543	1528	1534	1528	1526	435
25°	1421	1404	1411	1398	1397	653
35°	1227	1215	1219	1205	1204	767
45°	998	991	990	981	981	768
55°	740	737	730	726	724	657
65°	437	429	419	416	418	436
75°	199	199	196	195	193	216
85°	46	50	50	50	50	54
90°	0	0	0	0	0	2
95°	16	63	285	98	61	18
105°	65	99	426	753	716	69
115°	121	146	323	685	804	119
125°	170	189	308	512	612	153
135°	208	226	305	432	489	161
145°	246	258	307	374	408	154
155°	281	288	315	338	352	130
165°	310	312	318	325	330	87
175°	325	323	322	320	318	31
180°	323	323	323	323	323	

TEST NUMBER: P523649

CATALOG NUMBER: SQ4-PP3-025U-100D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1598.6	1598.6	1598.6	1598.6	1598.6
2.5°	1608.7	1595.5	1598.6	1596.2	1589.6
5°	1604.2	1589.1	1594.4	1588.8	1588.8
7.5°	1593.3	1576.8	1582.1	1576.4	1576.2
10°	1583.2	1566.7	1572.0	1566.3	1565.0
12.5°	1568.6	1552.2	1558.5	1551.8	1551.5
15°	1542.6	1527.5	1534.1	1528.5	1525.7
17.5°	1513.1	1496.7	1504.7	1496.9	1495.8
20°	1490.7	1474.3	1482.3	1471.1	1471.1
22.5°	1463.8	1447.4	1456.5	1442.0	1442.0
25°	1420.7	1404.2	1410.9	1398.2	1396.8
27.5°	1369.4	1353.2	1360.1	1345.8	1345.6
30°	1332.4	1317.3	1325.4	1309.9	1308.6
32.5°	1292.0	1278.1	1283.9	1268.5	1267.1
35°	1227.3	1215.0	1218.9	1204.9	1203.5
37.5°	1159.2	1146.6	1151.1	1139.0	1138.5
40°	1111.0	1102.8	1104.0	1094.2	1091.4
42.5°	1066.2	1056.9	1058.1	1048.2	1047.7
45°	997.5	990.7	990.5	980.7	980.7
47.5°	924.7	919.5	918.0	909.8	909.6
50°	874.3	870.1	868.6	861.6	860.2
52.5°	821.6	819.7	814.8	809.0	808.7
55°	739.8	737.0	729.9	725.7	724.3
57.5°	650.9	645.4	637.5	631.3	632.4
60°	587.0	581.6	570.2	567.4	567.4
62.5°	525.4	518.8	507.5	503.6	505.8
65°	437.1	428.9	418.9	416.1	417.5
67.5°	357.0	349.6	338.8	338.7	337.7
70°	305.4	301.3	292.8	292.8	292.8
72.5°	259.5	257.6	251.3	251.3	250.2
75°	198.9	198.9	196.1	194.7	193.3
77.5°	149.1	149.6	148.2	146.8	144.3
80°	117.7	120.4	119.1	117.7	116.3
82.5°	88.5	91.3	91.1	88.5	88.3
85°	46.2	50.3	50.4	50.4	50.4
87.5°	12.3	16.7	17.9	18.0	19.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.9	26.0	60.4	17.6	13.2
95°	15.9	63.3	284.6	98.5	60.7
97.5°	29.3	74.2	438.3	313.6	214.9
100°	38.6	80.6	471.7	477.7	368.0
102.5°	48.9	87.6	464.3	611.5	515.7
105°	65.0	98.6	426.3	752.9	715.8
107.5°	81.3	111.4	381.9	792.8	825.9
110°	92.6	120.8	356.3	777.6	851.9

TEST NUMBER: P523649

CATALOG NUMBER: SQ4-PP3-025U-100D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	103.4	130.2	339.2	741.5	847.5
115°	120.8	146.0	323.2	684.7	804.1
117.5°	136.2	159.8	313.8	622.7	749.1
120°	148.4	168.2	312.8	587.3	708.4
122.5°	158.2	178.0	310.3	556.2	668.7
125°	170.5	189.1	308.5	512.0	612.1
127.5°	183.9	201.3	307.5	485.6	568.1
130°	190.7	208.1	306.1	467.2	539.1
132.5°	198.1	215.0	306.1	452.8	519.0
135°	208.5	225.9	304.8	432.5	488.8
137.5°	218.3	235.3	304.7	415.2	463.9
140°	225.7	243.1	304.2	401.0	447.7
142.5°	234.0	248.6	305.7	389.6	431.5
145°	245.9	258.5	307.3	374.3	407.9
147.5°	256.1	268.4	310.0	358.8	387.9
150°	265.0	273.4	311.0	353.7	374.1
152.5°	271.8	280.7	311.9	346.8	365.8
155°	280.9	287.5	314.6	338.3	352.1
157.5°	292.2	296.2	315.3	334.4	344.2
160°	298.1	301.1	317.7	331.4	339.8
162.5°	301.5	305.0	318.2	328.9	335.4
165°	310.3	311.5	318.3	325.2	330.0
167.5°	316.4	315.3	321.1	324.3	326.2
170°	318.3	317.7	320.2	320.8	323.2
172.5°	322.7	320.7	321.6	319.8	321.8
175°	325.1	323.3	322.0	320.1	317.7
177.5°	326.0	323.2	321.6	319.7	320.2
180°	322.6	322.6	322.6	322.6	322.6

(END OF REPORT)