

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: P562380

Luminaire Tested: **SQ4-PW1-100U-100D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562380
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-PW1-100U-100D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

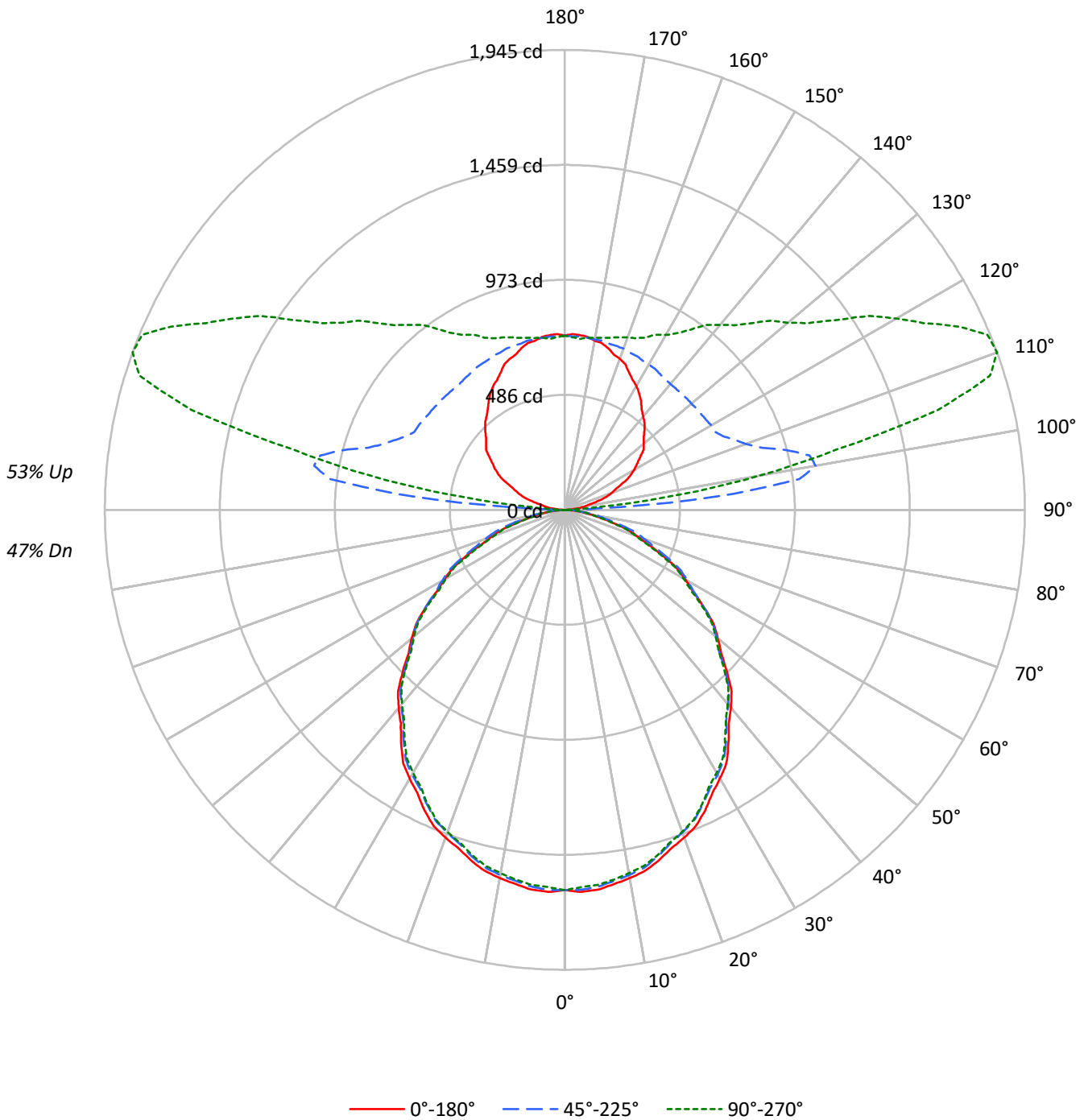
Lumens per Lamp: N/A
Luminaire Lumens: 8665.9 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 74.6
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: P562380
CATALOG NUMBER: SQ4-PW1-100U-100D-92765-1D-UNV-STD-W-4 (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P562380

CATALOG NUMBER: SQ4-PW1-100U-100D-92765-1D-UNV-STD-W-4 (5000K)

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	50	30	10	0	
RCR																						
0	106	106	106	106	98	98	98	98	82	82	82	67	67	67	54	54	54	47				47
1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	46	45				40	
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38				34	
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	37	35	33				29	
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	30	28				25	
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25				21	
6	63	51	42	37	57	47	40	35	40	34	30	33	29	26	27	24	22				19	
7	58	46	38	32	53	42	35	30	36	31	27	30	26	23	25	22	19				17	
8	54	41	34	28	49	38	32	27	33	27	24	28	23	20	23	20	17				15	
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16				13	
10	47	35	27	23	43	32	26	21	28	23	19	24	19	17	20	16	14				12	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14838	14838	14838
5°	14933	14816	14750
10°	14814	14695	14615
15°	14657	14495	14440
20°	14482	14259	14232
25°	14279	14020	13977
30°	13977	13766	13676
35°	13581	13390	13310
40°	13157	12952	12901
45°	12645	12479	12423
50°	12121	12020	11938
55°	11556	11556	11372
60°	10850	11059	10667
65°	9929	10424	9682
70°	8754	9593	8524
75°	7475	8587	7272
80°	5797	7226	5871
85°	3747	5547	4954



TEST NUMBER: P562380

CATALOG NUMBER: SQ4-PW1-100U-100D-92765-1D-UNV-STD-W-4 (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.4	1.7
10°-20°	427.5	4.9
20°-30°	634.2	7.3
30°-40°	742.1	8.6
40°-50°	738.7	8.5
50°-60°	637.9	7.4
60°-70°	459.2	5.3
70°-80°	240.8	2.8
80°-90°	59.7	0.7
90°-100°	335.6	3.9
100°-110°	954.8	11.0
110°-120°	914.8	10.6
120°-130°	724.0	8.4
130°-140°	581.1	6.7
140°-150°	455.0	5.3
150°-160°	332.9	3.8
160°-170°	206.2	2.4
170°-180°	70.0	0.8
0°-30°	1213.2	14.0
0°-40°	1955.2	22.6
0°-60°	3331.9	38.4
0°-90°	4091.6	47.2
90°-120°	2205.2	25.4
90°-150°	3965.3	45.8
90°-180°	4574.0	52.8
0°-180°	8665.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1608	1608	1608	1608	1608	
5°	1612	1594	1600	1595	1593	153
15°	1534	1515	1518	1515	1512	433
25°	1403	1379	1377	1369	1373	645
35°	1206	1189	1189	1178	1182	754
45°	969	961	956	954	952	748
55°	718	717	718	708	707	641
65°	455	469	478	459	444	451
75°	210	229	241	225	204	225
85°	35	46	52	50	47	47
90°	0	0	0	0	0	3
95°	36	144	650	225	139	42
105°	148	225	973	1719	1634	157
115°	276	333	738	1563	1835	272
125°	389	432	704	1169	1397	348
135°	476	516	696	987	1116	367
145°	561	590	701	854	931	351
155°	641	656	718	772	804	296
165°	708	711	727	742	753	199
175°	742	738	735	731	725	70
180°	736	736	736	736	736	

TEST NUMBER: P562380

CATALOG NUMBER: SQ4-PW1-100U-100D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1608.2	1608.2	1608.2	1608.2	1608.2
2.5°	1617.2	1603.9	1608.2	1604.6	1596.8
5°	1612.4	1594.4	1599.7	1595.3	1592.6
7.5°	1596.0	1579.4	1583.2	1578.7	1577.0
10°	1581.2	1564.6	1568.5	1562.8	1560.0
12.5°	1564.2	1546.5	1550.4	1544.6	1543.0
15°	1534.5	1515.1	1517.5	1514.6	1511.8
17.5°	1499.9	1480.2	1480.6	1476.1	1475.5
20°	1475.0	1454.2	1452.3	1446.7	1449.5
22.5°	1447.8	1425.9	1424.0	1416.1	1420.0
25°	1402.7	1379.2	1377.2	1368.8	1373.0
27.5°	1350.6	1327.3	1327.3	1315.5	1320.0
30°	1312.0	1289.9	1292.2	1278.2	1283.7
32.5°	1271.2	1251.3	1252.5	1238.5	1244.0
35°	1205.8	1189.1	1188.8	1177.5	1181.7
37.5°	1138.9	1124.2	1121.9	1115.4	1116.5
40°	1092.4	1079.9	1075.4	1071.2	1071.2
42.5°	1043.7	1032.3	1027.8	1024.7	1023.6
45°	969.1	960.8	956.4	953.5	952.1
47.5°	895.5	887.7	883.9	881.8	880.5
50°	844.5	838.9	837.4	833.1	831.7
52.5°	793.5	790.1	788.6	783.2	781.8
55°	718.4	717.0	718.4	708.4	707.0
57.5°	640.1	642.4	646.9	633.6	630.2
60°	588.0	593.5	599.3	583.6	578.1
62.5°	534.7	543.6	551.7	533.7	525.9
65°	454.8	468.7	477.5	458.7	443.5
67.5°	377.7	394.9	405.5	385.3	368.1
70°	324.5	343.9	355.6	335.4	316.0
72.5°	278.0	299.6	309.2	290.0	270.6
75°	209.7	229.1	240.9	224.8	204.0
77.5°	148.8	167.1	176.8	162.8	145.7
80°	109.1	128.5	136.0	124.4	110.5
82.5°	77.4	93.4	98.6	91.6	82.2
85°	35.4	46.5	52.4	49.5	46.8
87.5°	9.1	16.8	21.5	21.6	22.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.2	59.4	137.8	40.1	30.2
95°	36.4	144.5	649.6	224.8	138.6
97.5°	66.9	169.3	1000.5	715.9	490.6
100°	88.2	184.0	1076.6	1090.5	840.0
102.5°	111.7	199.9	1059.8	1395.9	1177.1
105°	148.4	225.1	973.0	1718.7	1633.8
107.5°	185.6	254.4	871.7	1809.7	1885.3
110°	211.4	275.7	813.4	1774.9	1944.6

TEST NUMBER: P562380

CATALOG NUMBER: SQ4-PW1-100U-100D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	236.0	297.1	774.2	1692.5	1934.6
115°	275.8	333.3	737.8	1563.0	1835.4
117.5°	310.8	364.7	716.3	1421.4	1710.0
120°	338.8	384.0	714.0	1340.5	1617.0
122.5°	361.2	406.4	708.4	1269.5	1526.3
125°	389.2	431.6	704.2	1168.6	1397.2
127.5°	419.7	459.4	702.0	1108.3	1296.7
130°	435.4	475.1	698.6	1066.4	1230.6
132.5°	452.2	490.8	698.6	1033.6	1184.7
135°	476.0	515.7	695.8	987.1	1115.8
137.5°	498.4	537.0	695.5	947.8	1059.0
140°	515.2	554.9	694.4	915.2	1022.0
142.5°	534.3	567.4	697.8	889.2	985.1
145°	561.4	590.2	701.4	854.4	931.0
147.5°	584.7	612.6	707.6	819.1	885.4
150°	604.8	624.0	709.8	807.5	854.0
152.5°	620.5	640.8	712.1	791.7	835.0
155°	641.2	656.3	718.2	772.1	803.6
157.5°	667.0	676.0	719.6	763.2	785.7
160°	680.4	687.3	725.2	756.5	775.6
162.5°	688.3	696.2	726.3	750.8	765.5
165°	708.4	711.2	726.6	742.3	753.2
167.5°	722.1	719.7	733.1	740.2	744.5
170°	726.6	725.2	730.8	732.3	737.8
172.5°	736.7	732.0	734.2	730.1	734.5
175°	742.0	737.9	735.0	730.7	725.2
177.5°	744.3	737.7	734.2	729.7	730.8
180°	736.4	736.4	736.4	736.4	736.4

(END OF REPORT)