

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: P562388

Luminaire Tested: **SQ4-PW1-100U-125D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562388  
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-125D-92765-1D-UNV-STD-W-4 (2700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

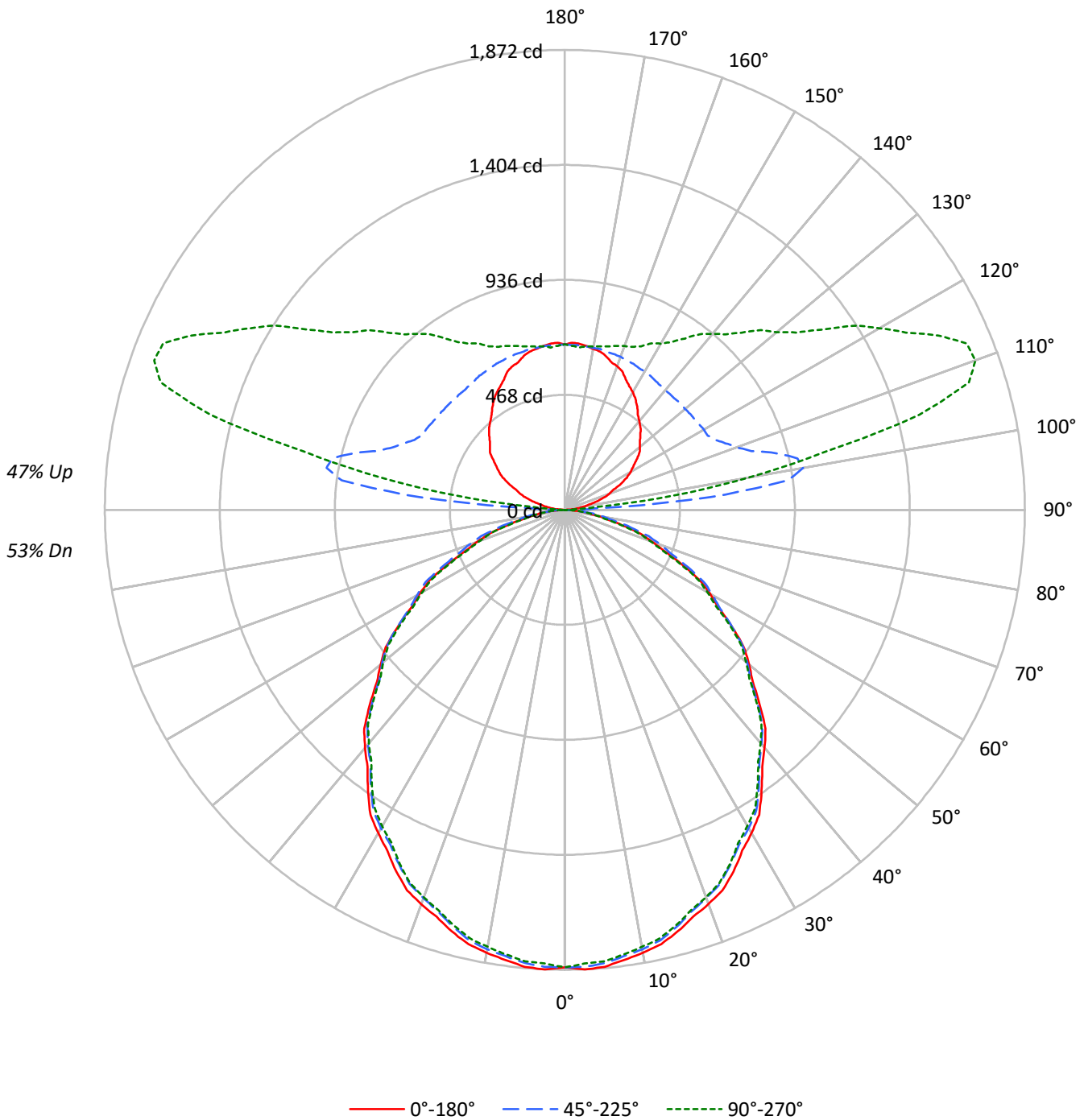
Lumens per Lamp: N/A  
Luminaire Lumens: 8920.8 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 87.9  
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: P562388  
CATALOG NUMBER: SQ4-PW1-100U-125D-92765-1D-UNV-STD-W-4 (2700K)

### Luminous Intensity Polar Plot





TEST NUMBER: P562388

CATALOG NUMBER: SQ4-PW1-100U-125D-92765-1D-UNV-STD-W-4 (2700K)

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53		
1	99	94	90	87	91	88	84	81	75	72	70	63	61	60	52	51	50	45		
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	46	44	42	38		
3	82	73	65	59	76	67	61	56	58	53	49	49	45	42	41	38	36	32		
4	75	64	56	50	69	60	53	47	52	46	42	44	40	36	37	34	31	28		
5	69	57	49	43	64	53	46	41	46	40	36	39	35	32	33	30	27	24		
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24	21		
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21	19		
8	55	42	34	29	50	39	32	28	34	29	25	30	25	22	25	22	19	17		
9	51	39	31	26	47	36	29	25	32	26	22	27	23	20	23	20	17	15		
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	22	18	16	14		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	17179	17179	17179
5°	17290	17154	17078
10°	17152	17014	16921
15°	16970	16782	16719
20°	16768	16510	16478
25°	16533	16233	16183
30°	16184	15940	15834
35°	15724	15503	15410
40°	15233	14997	14937
45°	14641	14449	14384
50°	14035	13917	13822
55°	13378	13378	13168
60°	12562	12804	12350
65°	11496	12070	11210
70°	10135	11109	9868
75°	8655	9942	8420
80°	6711	8368	6801
85°	4340	6426	5727



TEST NUMBER: P562388

CATALOG NUMBER: SQ4-PW1-100U-125D-92765-1D-UNV-STD-W-4 (2700K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.3	2.0
10°-20°	495.0	5.5
20°-30°	734.3	8.2
30°-40°	859.2	9.6
40°-50°	855.3	9.6
50°-60°	738.6	8.3
60°-70°	531.7	6.0
70°-80°	278.8	3.1
80°-90°	69.1	0.8
90°-100°	306.9	3.4
100°-110°	873.2	9.8
110°-120°	836.6	9.4
120°-130°	662.1	7.4
130°-140°	531.5	6.0
140°-150°	416.1	4.7
150°-160°	304.4	3.4
160°-170°	188.6	2.1
170°-180°	64.0	0.7
0°-30°	1404.6	15.7
0°-40°	2263.8	25.4
0°-60°	3857.8	43.2
0°-90°	4737.4	53.1
90°-120°	2016.7	22.6
90°-150°	3626.3	40.7
90°-180°	4183.0	46.9
0°-180°	8920.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1862	1862	1862	1862	1862	
5°	1867	1846	1852	1847	1844	177
15°	1777	1754	1757	1754	1750	501
25°	1624	1597	1595	1585	1590	747
35°	1396	1377	1376	1363	1368	873
45°	1122	1112	1107	1104	1102	866
55°	832	830	832	820	819	742
65°	527	543	553	531	514	522
75°	243	265	279	260	236	260
85°	41	54	61	57	54	54
90°	0	0	0	0	0	3
95°	33	132	594	206	127	38
105°	136	206	890	1572	1494	144
115°	252	305	675	1429	1678	248
125°	356	395	644	1069	1278	319
135°	435	472	636	903	1020	336
145°	513	540	642	781	851	321
155°	586	600	657	706	735	271
165°	648	650	664	679	689	182
175°	679	675	672	668	663	64
180°	674	674	674	674	674	

TEST NUMBER: P562388

CATALOG NUMBER: SQ4-PW1-100U-125D-92765-1D-UNV-STD-W-4 (2700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1862.0	1862.0	1862.0	1862.0	1862.0
2.5°	1872.5	1857.1	1862.0	1857.9	1848.9
5°	1866.9	1846.1	1852.2	1847.2	1844.0
7.5°	1847.9	1828.6	1833.1	1827.8	1825.9
10°	1830.8	1811.6	1816.1	1809.4	1806.2
12.5°	1811.1	1790.6	1795.1	1788.5	1786.5
15°	1776.7	1754.2	1757.0	1753.7	1750.4
17.5°	1736.7	1713.9	1714.4	1709.1	1708.4
20°	1707.8	1683.7	1681.5	1675.1	1678.3
22.5°	1676.3	1650.9	1648.7	1639.6	1644.1
25°	1624.1	1596.9	1594.6	1584.9	1589.7
27.5°	1563.8	1536.8	1536.8	1523.2	1528.3
30°	1519.1	1493.5	1496.2	1479.9	1486.3
32.5°	1471.9	1448.8	1450.2	1434.0	1440.4
35°	1396.1	1376.8	1376.4	1363.4	1368.2
37.5°	1318.7	1301.7	1299.0	1291.5	1292.7
40°	1264.8	1250.4	1245.2	1240.2	1240.2
42.5°	1208.4	1195.3	1190.0	1186.4	1185.1
45°	1122.1	1112.5	1107.4	1104.0	1102.4
47.5°	1036.8	1027.8	1023.4	1021.0	1019.4
50°	977.8	971.3	969.6	964.6	963.0
52.5°	918.7	914.8	913.1	906.8	905.2
55°	831.7	830.1	831.7	820.2	818.6
57.5°	741.2	743.8	749.1	733.6	729.7
60°	680.8	687.2	693.9	675.8	669.3
62.5°	619.1	629.4	638.8	617.9	609.0
65°	526.6	542.6	552.9	531.1	513.5
67.5°	437.4	457.3	469.5	446.1	426.2
70°	375.7	398.1	411.8	388.3	365.8
72.5°	321.9	346.9	358.0	335.8	313.3
75°	242.8	265.3	278.9	260.3	236.2
77.5°	172.3	193.4	204.7	188.5	168.6
80°	126.3	148.8	157.5	144.0	128.0
82.5°	89.6	108.2	114.2	106.1	95.2
85°	41.0	53.8	60.7	57.3	54.1
87.5°	10.5	19.5	24.9	25.0	26.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.2	54.3	126.0	36.7	27.7
95°	33.3	132.2	594.1	205.6	126.8
97.5°	61.2	154.8	914.9	654.7	448.6
100°	80.7	168.3	984.6	997.3	768.2
102.5°	102.2	182.8	969.2	1276.6	1076.5
105°	135.7	205.8	889.8	1571.8	1494.2
107.5°	169.8	232.6	797.1	1655.0	1724.1
110°	193.3	252.2	743.9	1623.2	1778.4

TEST NUMBER: P562388

CATALOG NUMBER: SQ4-PW1-100U-125D-92765-1D-UNV-STD-W-4 (2700K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	215.9	271.7	708.0	1547.9	1769.2
115°	252.2	304.8	674.7	1429.4	1678.5
117.5°	284.2	333.6	655.0	1299.9	1563.8
120°	309.8	351.2	653.0	1225.9	1478.8
122.5°	330.3	371.6	647.9	1161.0	1395.8
125°	355.9	394.7	644.0	1068.7	1277.8
127.5°	383.8	420.2	642.0	1013.6	1185.9
130°	398.2	434.5	638.9	975.2	1125.4
132.5°	413.6	448.9	638.9	945.2	1083.4
135°	435.3	471.6	636.3	902.8	1020.4
137.5°	455.8	491.1	636.1	866.8	968.5
140°	471.2	507.5	635.1	837.0	934.7
142.5°	488.6	518.9	638.1	813.2	900.9
145°	513.4	539.7	641.5	781.3	851.4
147.5°	534.7	560.2	647.1	749.1	809.7
150°	553.1	570.6	649.1	738.5	781.0
152.5°	567.5	586.0	651.2	724.0	763.6
155°	586.4	600.2	656.8	706.1	734.9
157.5°	610.0	618.2	658.1	698.0	718.5
160°	622.3	628.5	663.2	691.8	709.3
162.5°	629.4	636.7	664.2	686.6	700.1
165°	647.9	650.4	664.5	678.8	688.8
167.5°	660.4	658.2	670.4	676.9	680.9
170°	664.5	663.3	668.3	669.7	674.7
172.5°	673.7	669.5	671.4	667.7	671.7
175°	678.6	674.8	672.2	668.2	663.2
177.5°	680.6	674.6	671.4	667.3	668.3
180°	673.5	673.5	673.5	673.5	673.5

(END OF REPORT)