

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: P562432

Luminaire Tested: **SQ4-PW1-125U-100D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562432  
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-PW1-125U-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 1250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

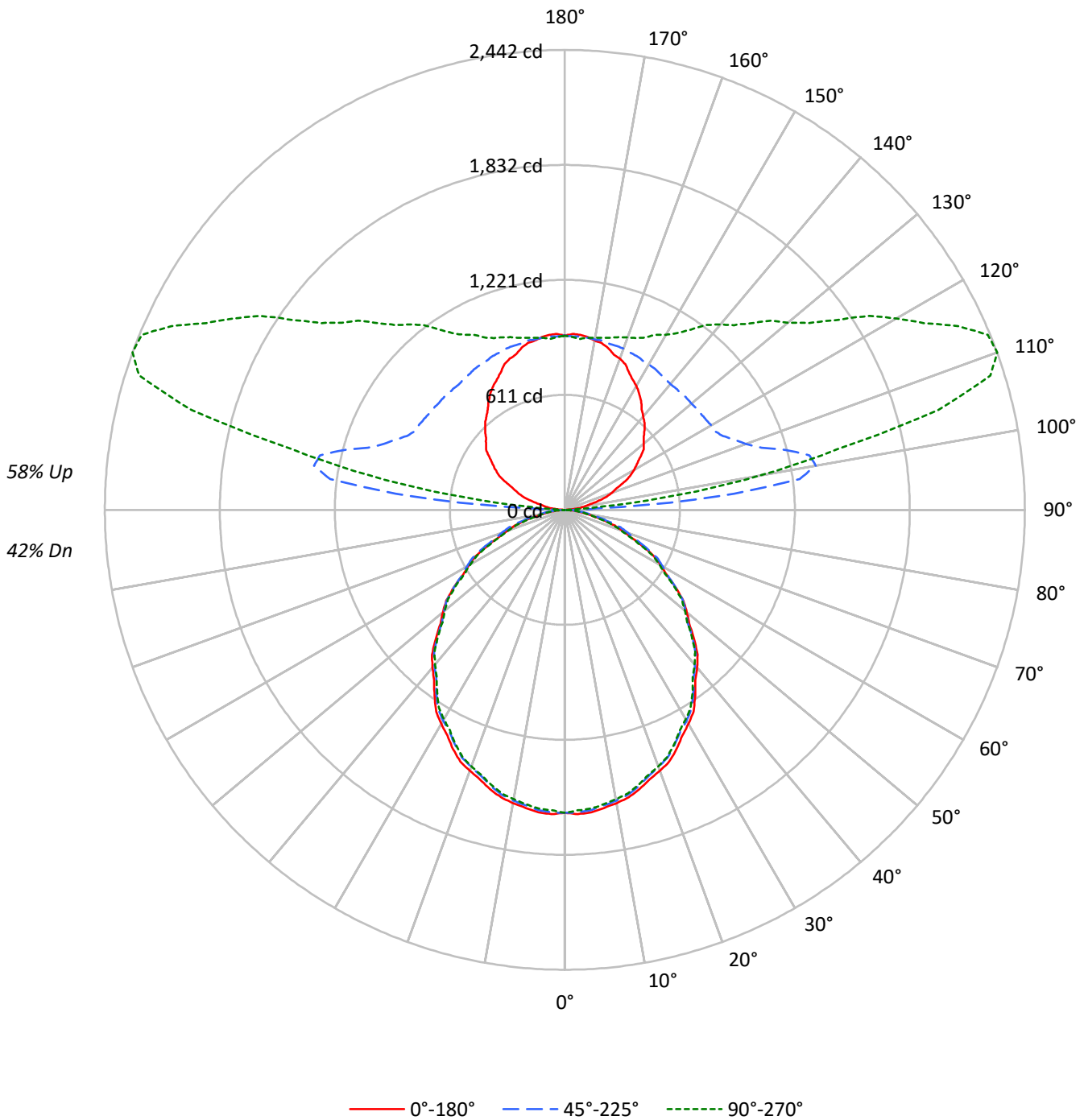
Lumens per Lamp: N/A  
Luminaire Lumens: 9837.0 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 83.7  
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	42
1	96	92	88	85	87	84	81	78	69	67	65	55	54	53	43	42	41	35
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	71	63	58	72	65	58	53	53	49	45	43	40	37	34	31	30	25
4	73	62	55	49	66	57	50	45	47	42	38	38	35	32	30	28	25	22
5	67	56	48	42	61	51	44	39	42	37	33	34	31	28	27	24	22	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	16
7	57	45	37	32	52	41	34	29	35	29	25	28	24	21	22	20	17	15
8	53	41	33	28	48	38	31	26	31	26	22	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11

**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



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.4	1.5
10°-20°	427.5	4.3
20°-30°	634.2	6.4
30°-40°	742.1	7.5
40°-50°	738.7	7.5
50°-60°	637.9	6.5
60°-70°	459.2	4.7
70°-80°	240.8	2.4
80°-90°	59.7	0.6
90°-100°	421.5	4.3
100°-110°	1199.2	12.2
110°-120°	1149.0	11.7
120°-130°	909.4	9.2
130°-140°	729.9	7.4
140°-150°	571.4	5.8
150°-160°	418.1	4.3
160°-170°	259.0	2.6
170°-180°	87.9	0.9
0°-30°	1213.2	12.3
0°-40°	1955.2	19.9
0°-60°	3331.9	33.9
0°-90°	4091.6	41.6
90°-120°	2769.7	28.2
90°-150°	4980.4	50.6
90°-180°	5745.0	58.4
0°-180°	9837.0	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°	46	182	816	282	174	52
105°	186	283	1222	2159	2052	197
115°	346	419	927	1963	2305	341
125°	489	542	884	1468	1755	438
135°	598	648	874	1240	1402	461
145°	705	741	881	1073	1169	440
155°	805	824	902	970	1009	372
165°	890	893	913	932	946	250
175°	932	927	923	918	911	88
180°	925	925	925	925	925	



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**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°	14.1	74.6	173.0	50.4	38.0
95°	45.7	181.5	815.9	282.4	174.1
97.5°	84.1	212.7	1256.6	899.2	616.2
100°	110.8	231.1	1352.2	1369.7	1055.1
102.5°	140.3	251.0	1331.1	1753.2	1478.5
105°	186.4	282.7	1222.1	2158.7	2052.1
107.5°	233.2	319.5	1094.8	2273.0	2367.9
110°	265.5	346.3	1021.6	2229.2	2442.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	296.5	373.2	972.4	2125.8	2429.8
115°	346.4	418.6	926.7	1963.1	2305.3
117.5°	390.4	458.1	899.6	1785.3	2147.7
120°	425.5	482.3	896.8	1683.7	2031.0
122.5°	453.7	510.4	889.8	1594.5	1917.0
125°	488.8	542.1	884.5	1467.8	1754.9
127.5°	527.2	577.0	881.7	1392.1	1628.7
130°	546.9	596.7	877.5	1339.3	1545.7
132.5°	568.0	616.5	877.5	1298.2	1488.0
135°	597.9	647.7	873.9	1239.8	1401.5
137.5°	626.0	674.5	873.6	1190.5	1330.1
140°	647.1	697.0	872.2	1149.5	1283.6
142.5°	671.0	712.6	876.4	1116.9	1237.2
145°	705.1	741.2	881.0	1073.1	1169.4
147.5°	734.3	769.4	888.7	1028.8	1112.0
150°	759.6	783.7	891.5	1014.2	1072.6
152.5°	779.3	804.8	894.3	994.4	1048.7
155°	805.4	824.3	902.1	969.8	1009.3
157.5°	837.7	849.1	903.8	958.6	986.8
160°	854.6	863.2	910.9	950.1	974.2
162.5°	864.4	874.4	912.3	942.9	961.5
165°	889.8	893.2	912.6	932.3	946.0
167.5°	907.0	903.9	920.7	929.6	935.1
170°	912.6	910.9	917.9	919.8	926.7
172.5°	925.3	919.4	922.1	917.0	922.5
175°	932.0	926.8	923.2	917.7	910.9
177.5°	934.8	926.5	922.1	916.5	917.9
180°	924.9	924.9	924.9	924.9	924.9

(END OF REPORT)