

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: P562070

Luminaire Tested: **SQ4-PR1-125U-100D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562070  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-125U-100D-92765-1D-UNV-STD-W-4 (6500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

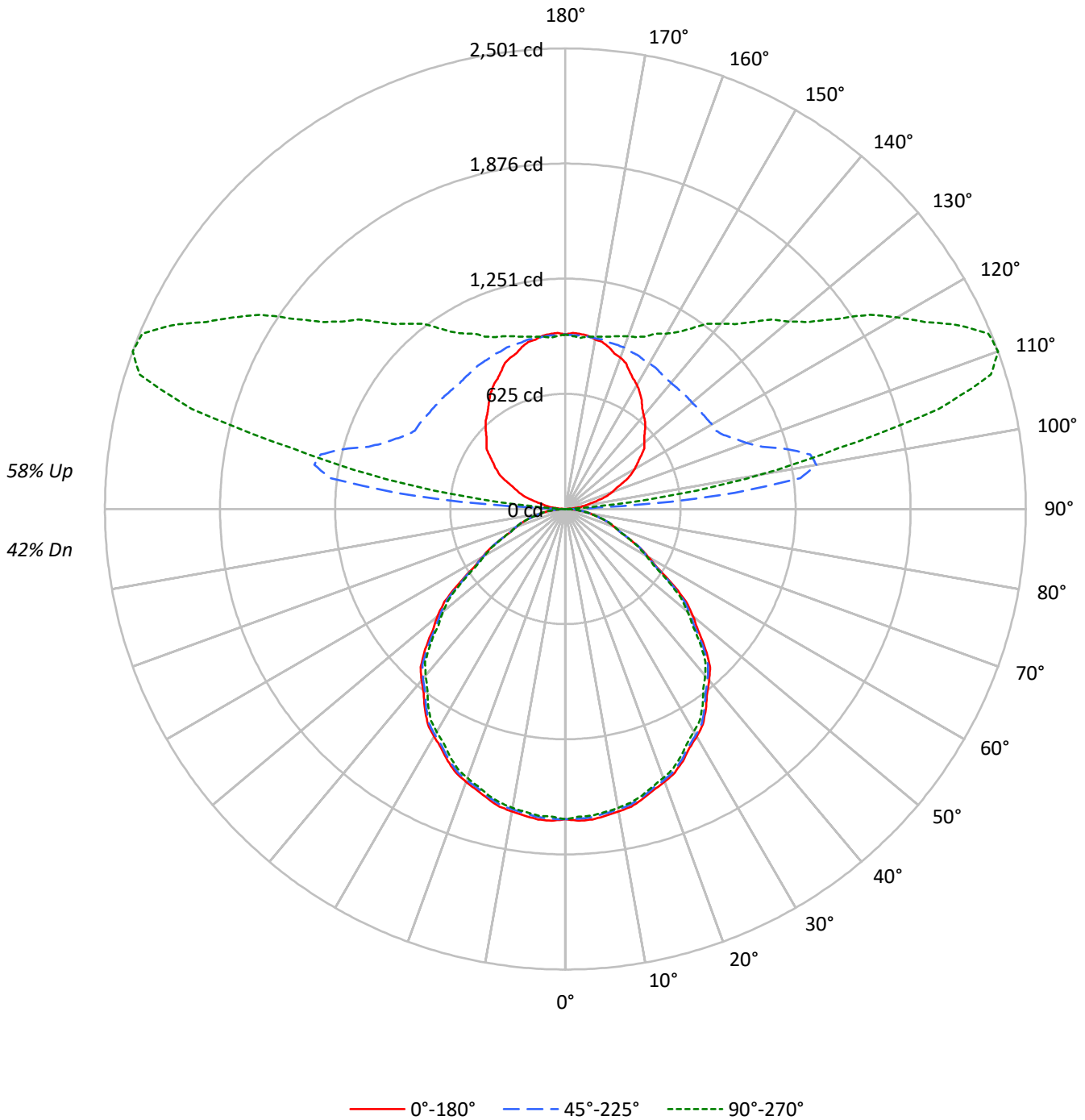
Lumens per Lamp: N/A  
Luminaire Lumens: 10092.9 lumens  
Efficiency: N/A  
Efficacy: 121.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 83.3  
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



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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	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	36
2	88	81	75	70	80	74	69	64	61	57	54	49	47	45	38	37	35	30
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	34	32	30	26
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	31	28	26	22
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	20
6	62	50	42	37	56	46	39	34	39	33	30	32	28	25	25	22	20	17
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	34	28	49	38	31	27	32	27	23	26	22	20	21	18	16	14
9	50	38	30	25	45	35	28	24	29	24	21	24	20	18	19	17	15	12
10	46	34	27	23	42	32	26	21	27	22	19	22	19	16	18	15	13	11

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

	0°	45°	90°
0°	15539	15539	15539
5°	15680	15558	15478
10°	15630	15521	15439
15°	15561	15464	15381
20°	15483	15382	15268
25°	15374	15270	15093
30°	15208	15099	14883
35°	14983	14853	14640
40°	14642	14484	14223
45°	14045	13799	13515
50°	12993	12681	12431
55°	11340	11084	10851
60°	9557	9475	9289
65°	8265	8298	8235
70°	7591	7631	7631
75°	7290	7290	7343
80°	6859	6939	6859
85°	5526	6140	6140



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.3	1.6
10°-20°	455.7	4.5
20°-30°	687.3	6.8
30°-40°	819.0	8.1
40°-50°	807.4	8.0
50°-60°	617.1	6.1
60°-70°	381.9	3.8
70°-80°	216.9	2.1
80°-90°	66.0	0.7
90°-100°	431.5	4.3
100°-110°	1227.8	12.2
110°-120°	1176.4	11.7
120°-130°	931.1	9.2
130°-140°	747.3	7.4
140°-150°	585.1	5.8
150°-160°	428.1	4.2
160°-170°	265.2	2.6
170°-180°	90.0	0.9
0°-30°	1302.3	12.9
0°-40°	2121.2	21.0
0°-60°	3545.7	35.1
0°-90°	4210.4	41.7
90°-120°	2835.8	28.1
90°-150°	5099.2	50.5
90°-180°	5882.0	58.3
0°-180°	10092.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1684	1684	1684	1684	1684	
5°	1693	1674	1680	1674	1671	161
15°	1629	1612	1619	1613	1610	460
25°	1510	1492	1500	1484	1483	695
35°	1330	1315	1319	1301	1300	830
45°	1076	1062	1058	1039	1036	825
55°	705	694	689	677	675	632
65°	379	376	380	377	377	384
75°	204	204	204	206	206	216
85°	52	55	58	58	58	61
90°	0	0	0	0	0	4
95°	47	186	835	289	178	54
105°	191	289	1251	2210	2101	202
115°	355	429	949	2010	2360	349
125°	500	555	906	1503	1797	448
135°	612	663	895	1269	1435	472
145°	722	759	902	1099	1197	451
155°	825	844	924	993	1033	381
165°	911	914	934	954	969	256
175°	954	949	945	940	933	90
180°	947	947	947	947	947	

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CATALOG NUMBER: SQ4-PR1-125U-100D-92765-1D-UNV-STD-W-4 (6500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1684.2	1684.2	1684.2	1684.2	1684.2
2.5°	1694.7	1679.9	1684.2	1680.6	1672.6
5°	1693.0	1674.5	1679.9	1674.0	1671.2
7.5°	1679.9	1661.7	1667.1	1661.3	1659.6
10°	1668.3	1651.3	1656.7	1650.8	1648.0
12.5°	1655.5	1637.4	1643.9	1636.9	1634.1
15°	1629.1	1612.1	1619.0	1613.1	1610.3
17.5°	1600.1	1582.0	1588.8	1582.0	1578.3
20°	1576.9	1559.9	1566.7	1556.6	1555.1
22.5°	1551.4	1534.3	1541.2	1527.6	1527.3
25°	1510.2	1491.7	1500.0	1484.0	1482.6
27.5°	1461.1	1444.1	1451.0	1434.7	1433.0
30°	1427.5	1410.5	1417.3	1399.8	1397.0
32.5°	1389.2	1373.3	1379.0	1361.6	1359.9
35°	1330.3	1314.7	1318.7	1301.2	1299.8
37.5°	1263.3	1249.1	1251.4	1232.2	1230.8
40°	1215.7	1201.5	1202.6	1182.3	1180.9
42.5°	1163.5	1149.3	1148.1	1127.7	1126.3
45°	1076.4	1062.2	1057.6	1038.6	1035.8
47.5°	977.2	963.0	954.3	938.8	936.9
50°	905.2	891.0	883.5	870.3	866.1
52.5°	827.5	813.3	806.9	794.9	790.6
55°	705.0	693.7	689.1	677.4	674.6
57.5°	588.7	581.0	579.7	568.4	567.2
60°	517.9	513.6	513.5	503.4	503.4
62.5°	457.5	454.4	456.7	450.0	448.8
65°	378.6	375.8	380.1	377.2	377.2
67.5°	316.3	316.3	318.9	317.7	317.7
70°	281.4	281.4	282.9	282.9	282.9
72.5°	250.1	249.0	252.7	252.7	251.5
75°	204.5	204.5	204.5	206.0	206.0
77.5°	159.3	159.6	160.7	160.4	159.3
80°	129.1	130.5	130.6	129.1	129.1
82.5°	98.9	100.4	100.4	100.1	98.9
85°	52.2	55.1	58.0	58.0	58.0
87.5°	15.1	19.6	23.2	23.2	22.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.4	76.4	177.2	51.6	38.9
95°	46.8	185.9	835.4	289.1	178.2
97.5°	86.1	217.7	1286.6	920.6	630.9
100°	113.4	236.6	1384.5	1402.4	1080.2
102.5°	143.7	257.0	1362.9	1795.1	1513.8
105°	190.8	289.4	1251.3	2210.2	2101.0
107.5°	238.7	327.1	1120.9	2327.2	2424.4
110°	271.9	354.6	1046.0	2282.4	2500.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	303.5	382.1	995.6	2176.5	2487.8
115°	354.7	428.6	948.8	2010.0	2360.3
117.5°	399.7	469.0	921.1	1827.9	2199.0
120°	435.7	493.8	918.2	1723.8	2079.4
122.5°	464.5	522.6	911.0	1632.5	1962.8
125°	500.5	555.1	905.6	1502.8	1796.8
127.5°	539.8	590.8	902.7	1425.3	1667.5
130°	559.9	611.0	898.4	1371.3	1582.5
132.5°	581.5	631.2	898.4	1329.1	1523.5
135°	612.1	663.2	894.8	1269.4	1434.9
137.5°	640.9	690.6	894.4	1218.9	1361.8
140°	662.5	713.6	893.0	1177.0	1314.3
142.5°	687.0	729.6	897.3	1143.5	1266.7
145°	722.0	758.9	902.0	1098.7	1197.3
147.5°	751.8	787.8	909.9	1053.4	1138.6
150°	777.8	802.4	912.8	1038.4	1098.2
152.5°	797.9	824.0	915.7	1018.1	1073.7
155°	824.6	843.9	923.6	992.9	1033.4
157.5°	857.7	869.3	925.4	981.5	1010.4
160°	875.0	883.8	932.6	972.8	997.4
162.5°	885.1	895.3	934.0	965.4	984.4
165°	911.0	914.5	934.4	954.5	968.6
167.5°	928.6	925.5	942.7	951.8	957.4
170°	934.4	932.6	939.8	941.8	948.8
172.5°	947.4	941.4	944.1	938.8	944.5
175°	954.2	948.9	945.2	939.6	932.6
177.5°	957.1	948.6	944.1	938.4	939.8
180°	947.0	947.0	947.0	947.0	947.0

(END OF REPORT)