

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: P562442

Luminaire Tested: **SQ4-PW1-125U-125D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562442  
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-125D-92765-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

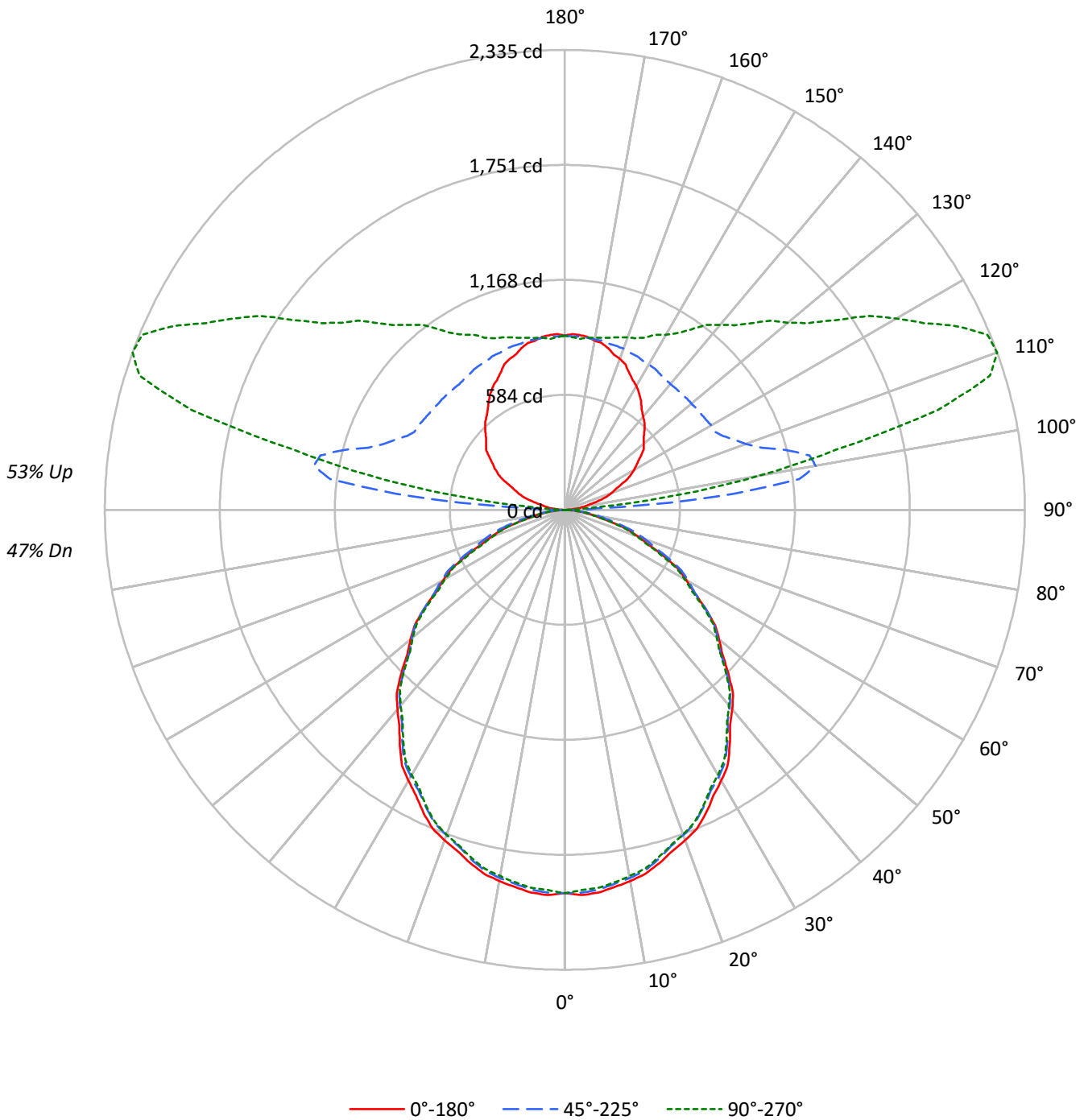
Lumens per Lamp: N/A  
Luminaire Lumens: 10443.5 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 97.3  
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47
1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	39	34
3	81	72	64	58	74	66	60	55	56	51	47	46	43	40	37	35	33	29
4	74	63	55	49	68	59	52	46	50	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	63	51	43	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	39	32	27	33	28	24	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	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°	17956	17956	17956
5°	18072	17929	17850
10°	17928	17783	17687
15°	17737	17542	17476
20°	17526	17257	17222
25°	17282	16967	16915
30°	16916	16660	16550
35°	16435	16203	16107
40°	15922	15675	15613
45°	15304	15102	15035
50°	14669	14546	14447
55°	13985	13985	13763
60°	13131	13384	12909
65°	12016	12616	11717
70°	10593	11610	10315
75°	9047	10391	8801
80°	7013	8745	7104
85°	4541	6711	5992



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.3	1.8
10°-20°	517.4	5.0
20°-30°	767.5	7.3
30°-40°	898.0	8.6
40°-50°	894.0	8.6
50°-60°	772.0	7.4
60°-70°	555.7	5.3
70°-80°	291.4	2.8
80°-90°	72.3	0.7
90°-100°	402.9	3.9
100°-110°	1146.3	11.0
110°-120°	1098.3	10.5
120°-130°	869.3	8.3
130°-140°	697.7	6.7
140°-150°	546.2	5.2
150°-160°	399.7	3.8
160°-170°	247.6	2.4
170°-180°	84.0	0.8
0°-30°	1468.2	14.1
0°-40°	2366.2	22.7
0°-60°	4032.2	38.6
0°-90°	4951.6	47.4
90°-120°	2647.5	25.4
90°-150°	4760.6	45.6
90°-180°	5492.0	52.6
0°-180°	10443.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1946	1946	1946	1946	1946	
5°	1951	1930	1936	1931	1927	185
15°	1857	1834	1836	1833	1830	523
25°	1698	1669	1667	1656	1662	781
35°	1459	1439	1439	1425	1430	912
45°	1173	1163	1157	1154	1152	905
55°	869	868	869	857	856	776
65°	550	567	578	555	537	545
75°	254	277	292	272	247	272
85°	43	56	63	60	57	57
90°	0	0	0	0	0	3
95°	44	174	780	270	166	50
105°	178	270	1168	2063	1962	188
115°	331	400	886	1876	2204	326
125°	467	518	846	1403	1678	418
135°	572	619	835	1185	1340	441
145°	674	708	842	1026	1118	421
155°	770	788	862	927	965	356
165°	850	854	872	891	904	239
175°	891	886	882	877	871	84
180°	884	884	884	884	884	

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CATALOG NUMBER: SQ4-PW1-125U-125D-92765-1D-UNV-STD-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1946.2	1946.2	1946.2	1946.2	1946.2
2.5°	1957.2	1941.1	1946.2	1941.9	1932.5
5°	1951.3	1929.5	1935.9	1930.7	1927.3
7.5°	1931.4	1911.3	1916.0	1910.5	1908.5
10°	1913.6	1893.5	1898.2	1891.2	1887.9
12.5°	1893.0	1871.6	1876.2	1869.3	1867.3
15°	1857.0	1833.6	1836.5	1832.9	1829.6
17.5°	1815.2	1791.4	1791.9	1786.4	1785.7
20°	1785.0	1759.9	1757.6	1750.8	1754.1
22.5°	1752.1	1725.6	1723.3	1713.8	1718.5
25°	1697.6	1669.1	1666.7	1656.5	1661.6
27.5°	1634.5	1606.3	1606.3	1592.1	1597.4
30°	1587.8	1561.0	1563.8	1546.8	1553.5
32.5°	1538.4	1514.3	1515.8	1498.8	1505.5
35°	1459.2	1439.1	1438.6	1425.0	1430.1
37.5°	1378.3	1360.5	1357.7	1349.8	1351.2
40°	1322.0	1307.0	1301.5	1296.3	1296.3
42.5°	1263.1	1249.3	1243.9	1240.0	1238.7
45°	1172.9	1162.8	1157.4	1154.0	1152.3
47.5°	1083.7	1074.3	1069.6	1067.2	1065.5
50°	1022.0	1015.3	1013.4	1008.2	1006.5
52.5°	960.2	956.2	954.4	947.9	946.2
55°	869.4	867.7	869.4	857.3	855.6
57.5°	774.7	777.4	782.9	766.7	762.7
60°	711.6	718.3	725.3	706.3	699.6
62.5°	647.1	657.9	667.7	645.9	636.5
65°	550.4	567.2	577.9	555.1	536.7
67.5°	457.1	477.9	490.7	466.3	445.5
70°	392.7	416.1	430.4	405.9	382.4
72.5°	336.4	362.6	374.1	351.0	327.5
75°	253.8	277.2	291.5	272.1	246.9
77.5°	180.0	202.2	214.0	197.1	176.3
80°	132.0	155.5	164.6	150.5	133.7
82.5°	93.6	113.1	119.3	110.9	99.5
85°	42.9	56.3	63.4	59.9	56.6
87.5°	11.0	20.4	26.1	26.1	27.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.4	71.3	165.4	48.1	36.3
95°	43.7	173.5	779.9	269.9	166.4
97.5°	80.3	203.3	1201.1	859.5	589.0
100°	105.9	220.9	1292.6	1309.2	1008.5
102.5°	134.1	240.0	1272.4	1675.9	1413.2
105°	178.2	270.2	1168.2	2063.4	1961.5
107.5°	222.9	305.4	1046.5	2172.7	2263.4
110°	253.8	331.0	976.6	2130.9	2334.7



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CATALOG NUMBER: SQ4-PW1-125U-125D-92765-1D-UNV-STD-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	283.4	356.7	929.5	2032.0	2322.6
115°	331.1	400.1	885.8	1876.5	2203.6
117.5°	373.1	437.9	859.9	1706.5	2053.0
120°	406.8	461.0	857.2	1609.4	1941.3
122.5°	433.7	487.9	850.5	1524.1	1832.4
125°	467.3	518.2	845.5	1403.0	1677.5
127.5°	503.9	551.6	842.8	1330.6	1556.8
130°	522.7	570.4	838.7	1280.2	1477.4
132.5°	542.9	589.3	838.7	1240.9	1422.3
135°	571.5	619.1	835.4	1185.1	1339.6
137.5°	598.4	644.7	835.0	1137.9	1271.4
140°	618.5	666.2	833.7	1098.8	1227.0
142.5°	641.4	681.2	837.7	1067.6	1182.6
145°	674.0	708.5	842.1	1025.7	1117.7
147.5°	701.9	735.4	849.5	983.4	1063.0
150°	726.1	749.1	852.2	969.4	1025.3
152.5°	744.9	769.3	854.9	950.5	1002.4
155°	769.8	787.9	862.3	927.0	964.8
157.5°	800.7	811.6	863.9	916.3	943.3
160°	816.9	825.1	870.7	908.2	931.2
162.5°	826.3	835.8	872.0	901.3	919.1
165°	850.5	853.8	872.3	891.1	904.3
167.5°	867.0	864.0	880.1	888.6	893.9
170°	872.3	870.7	877.4	879.2	885.8
172.5°	884.4	878.9	881.4	876.5	881.8
175°	890.8	885.9	882.4	877.2	870.7
177.5°	893.5	885.6	881.4	876.1	877.4
180°	884.1	884.1	884.1	884.1	884.1

(END OF REPORT)