

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: P562390

Luminaire Tested: **SQ4-PW1-100U-125D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562390  
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 (3500K)  
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 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

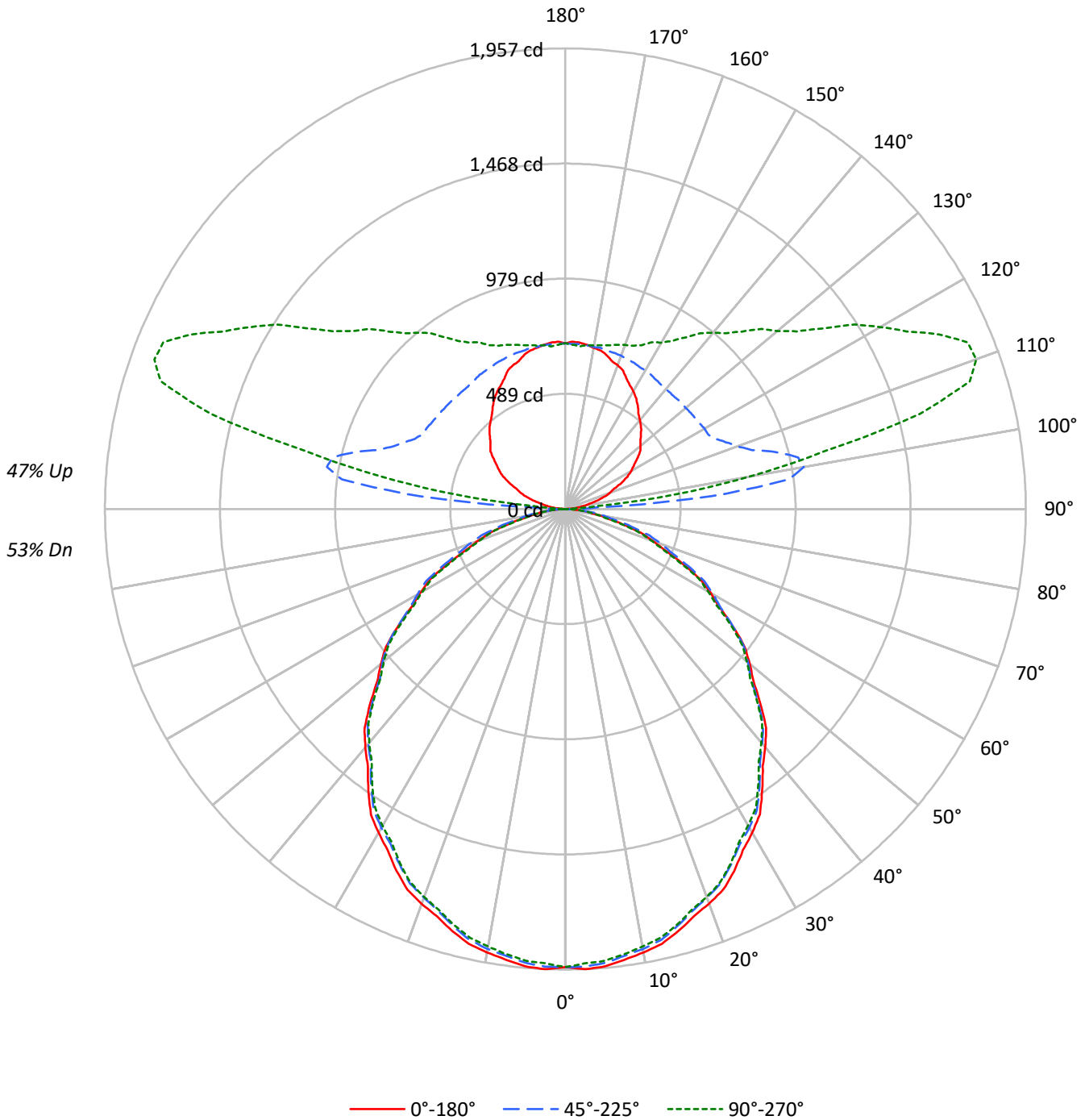
Lumens per Lamp: N/A  
Luminaire Lumens: 9324.2 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 88.2  
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				
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°	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	2.0
10°-20°	517.4	5.5
20°-30°	767.5	8.2
30°-40°	898.0	9.6
40°-50°	894.0	9.6
50°-60°	772.0	8.3
60°-70°	555.7	6.0
70°-80°	291.4	3.1
80°-90°	72.3	0.8
90°-100°	320.7	3.4
100°-110°	912.7	9.8
110°-120°	874.4	9.4
120°-130°	692.1	7.4
130°-140°	555.5	6.0
140°-150°	434.9	4.7
150°-160°	318.2	3.4
160°-170°	197.1	2.1
170°-180°	66.9	0.7
0°-30°	1468.2	15.7
0°-40°	2366.2	25.4
0°-60°	4032.2	43.2
0°-90°	4951.6	53.1
90°-120°	2107.9	22.6
90°-150°	3790.4	40.7
90°-180°	4373.0	46.9
0°-180°	9324.2	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°	35	138	621	215	132	40
105°	142	215	930	1643	1562	150
115°	264	319	705	1494	1754	260
125°	372	413	673	1117	1336	333
135°	455	493	665	944	1067	351
145°	537	564	670	817	890	335
155°	613	627	686	738	768	283
165°	677	680	695	710	720	190
175°	709	705	703	698	693	67
180°	704	704	704	704	704	

TEST NUMBER: P562390

CATALOG NUMBER: SQ4-PW1-100U-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°	10.7	56.8	131.7	38.3	28.9
95°	34.8	138.2	620.9	214.9	132.5
97.5°	64.0	161.8	956.3	684.3	468.9
100°	84.3	175.9	1029.1	1042.4	802.9
102.5°	106.8	191.1	1013.1	1334.3	1125.2
105°	141.9	215.1	930.1	1642.9	1561.7
107.5°	177.5	243.1	833.2	1729.9	1802.1
110°	202.1	263.6	777.5	1696.6	1858.8

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	225.6	284.0	740.1	1617.8	1849.2
115°	263.6	318.6	705.3	1494.1	1754.4
117.5°	297.1	348.6	684.6	1358.7	1634.5
120°	323.9	367.0	682.5	1281.4	1545.7
122.5°	345.3	388.4	677.2	1213.5	1459.0
125°	372.0	412.6	673.1	1117.1	1335.6
127.5°	401.2	439.2	671.0	1059.4	1239.5
130°	416.2	454.1	667.8	1019.3	1176.3
132.5°	432.3	469.2	667.8	988.0	1132.4
135°	455.0	493.0	665.1	943.6	1066.6
137.5°	476.4	513.3	664.8	906.0	1012.3
140°	492.5	530.4	663.8	874.9	976.9
142.5°	510.7	542.3	667.0	850.0	941.6
145°	536.6	564.1	670.5	816.7	889.9
147.5°	558.9	585.5	676.4	783.0	846.3
150°	578.1	596.4	678.5	771.8	816.3
152.5°	593.1	612.5	680.6	756.8	798.1
155°	612.9	627.3	686.5	738.1	768.2
157.5°	637.5	646.2	687.9	729.6	751.0
160°	650.4	656.9	693.2	723.1	741.4
162.5°	657.9	665.5	694.3	717.6	731.8
165°	677.2	679.8	694.6	709.5	720.0
167.5°	690.3	687.9	700.7	707.5	711.7
170°	694.6	693.2	698.6	700.0	705.3
172.5°	704.2	699.7	701.8	697.9	702.0
175°	709.3	705.3	702.6	698.4	693.2
177.5°	711.4	705.1	701.8	697.5	698.6
180°	703.9	703.9	703.9	703.9	703.9

(END OF REPORT)