

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: P562447

Luminaire Tested: **SQ4-PW1-125U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562447
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 (6500K)
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 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

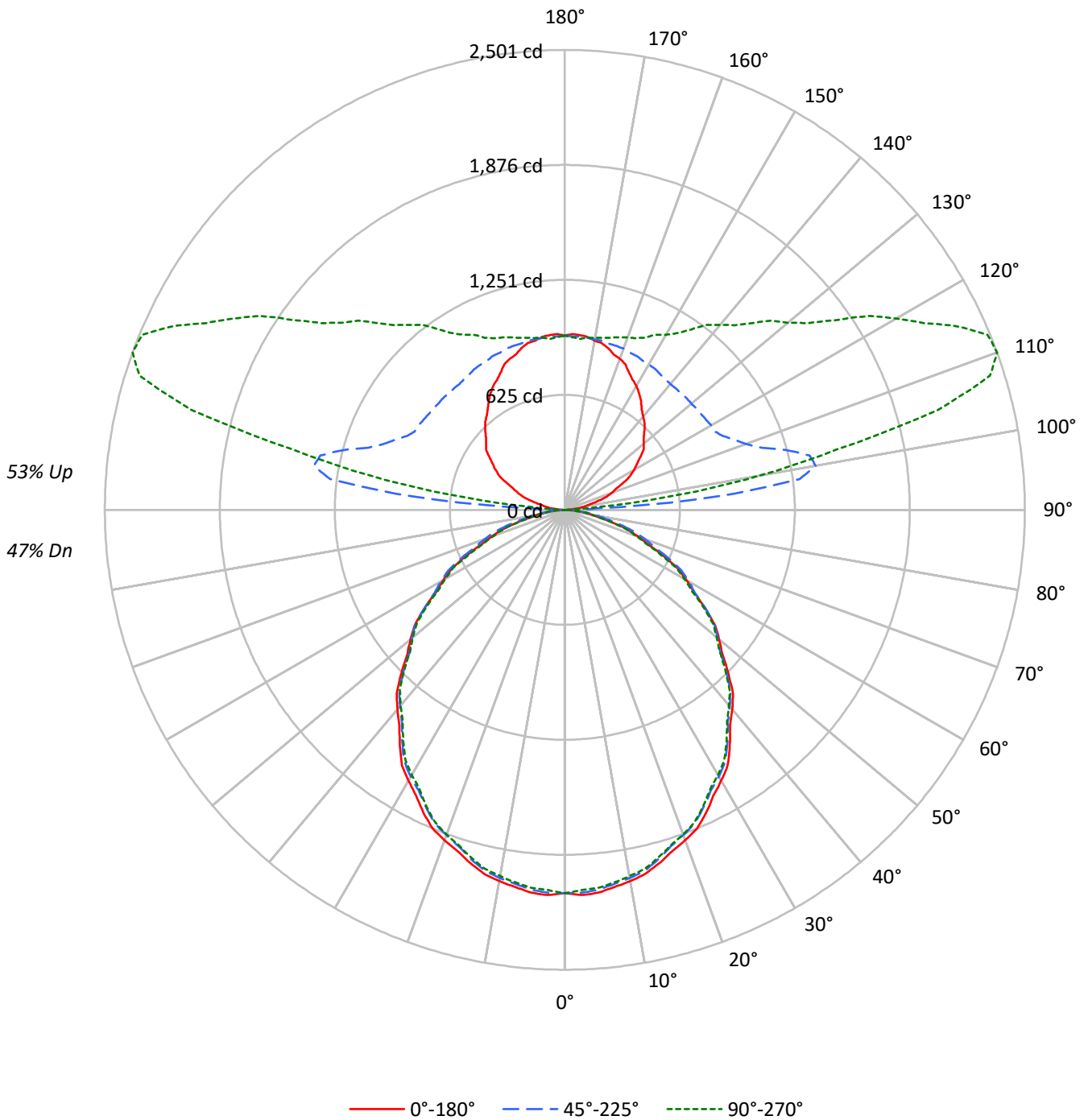
Lumens per Lamp: N/A
Luminaire Lumens: 11186.3 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 96.6
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°	19233	19233	19233
5°	19357	19205	19119
10°	19203	19048	18945
15°	18999	18789	18718
20°	18773	18484	18448
25°	18510	18174	18117
30°	18119	17846	17727
35°	17604	17356	17253
40°	17055	16789	16723
45°	16392	16177	16104
50°	15713	15581	15474
55°	14979	14979	14742
60°	14064	14336	13828
65°	12872	13513	12551
70°	11346	12436	11049
75°	9689	11129	9429
80°	7513	9367	7614
85°	4859	7198	6415



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.3	1.8
10°-20°	554.2	5.0
20°-30°	822.1	7.3
30°-40°	961.9	8.6
40°-50°	957.6	8.6
50°-60°	826.9	7.4
60°-70°	595.2	5.3
70°-80°	312.2	2.8
80°-90°	77.4	0.7
90°-100°	431.5	3.9
100°-110°	1227.8	11.0
110°-120°	1176.4	10.5
120°-130°	931.1	8.3
130°-140°	747.3	6.7
140°-150°	585.1	5.2
150°-160°	428.1	3.8
160°-170°	265.2	2.4
170°-180°	90.0	0.8
0°-30°	1572.6	14.1
0°-40°	2534.5	22.7
0°-60°	4319.1	38.6
0°-90°	5303.9	47.4
90°-120°	2835.8	25.4
90°-150°	5099.2	45.6
90°-180°	5882.0	52.6
0°-180°	11186.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2085	2085	2085	2085	2085	
5°	2090	2067	2074	2068	2064	198
15°	1989	1964	1967	1963	1960	561
25°	1818	1788	1785	1774	1780	836
35°	1563	1542	1541	1526	1532	977
45°	1256	1246	1240	1236	1234	969
55°	931	929	931	918	916	831
65°	590	608	619	595	575	584
75°	272	297	312	291	264	291
85°	46	60	68	64	61	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2084.6	2084.6	2084.6	2084.6	2084.6
2.5°	2096.4	2079.1	2084.6	2080.0	2069.9
5°	2090.1	2066.8	2073.6	2068.0	2064.4
7.5°	2068.8	2047.3	2052.3	2046.4	2044.2
10°	2049.7	2028.2	2033.2	2025.8	2022.2
12.5°	2027.7	2004.7	2009.7	2002.3	2000.1
15°	1989.1	1964.0	1967.1	1963.3	1959.7
17.5°	1944.3	1918.8	1919.3	1913.4	1912.7
20°	1912.0	1885.0	1882.6	1875.3	1878.9
22.5°	1876.7	1848.3	1845.9	1835.7	1840.7
25°	1818.3	1787.8	1785.3	1774.4	1779.7
27.5°	1750.7	1720.6	1720.6	1705.3	1711.1
30°	1700.8	1672.0	1675.1	1656.8	1664.0
32.5°	1647.9	1622.0	1623.6	1605.4	1612.6
35°	1563.0	1541.5	1541.0	1526.4	1531.8
37.5°	1476.3	1457.3	1454.3	1445.9	1447.3
40°	1416.1	1399.9	1394.0	1388.5	1388.5
42.5°	1352.9	1338.2	1332.3	1328.3	1326.8
45°	1256.3	1245.5	1239.8	1236.0	1234.2
47.5°	1160.8	1150.7	1145.7	1143.1	1141.3
50°	1094.7	1087.5	1085.5	1079.9	1078.1
52.5°	1028.5	1024.2	1022.3	1015.3	1013.5
55°	931.2	929.4	931.2	918.3	916.5
57.5°	829.8	832.7	838.6	821.3	817.0
60°	762.2	769.4	776.9	756.5	749.4
62.5°	693.2	704.7	715.2	691.8	681.8
65°	589.6	607.5	619.0	594.6	574.9
67.5°	489.7	511.9	525.7	499.4	477.2
70°	420.6	445.7	461.0	434.7	409.6
72.5°	360.4	388.4	400.8	375.9	350.8
75°	271.8	297.0	312.2	291.4	264.5
77.5°	192.9	216.6	229.2	211.1	188.8
80°	141.4	166.6	176.3	161.2	143.3
82.5°	100.3	121.1	127.8	118.7	106.5
85°	45.9	60.3	68.0	64.2	60.6
87.5°	11.8	21.8	27.9	28.0	29.4
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)