

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: P523920

Luminaire Tested: **SQ4-PP3-125U-125D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523920
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-125D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM 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

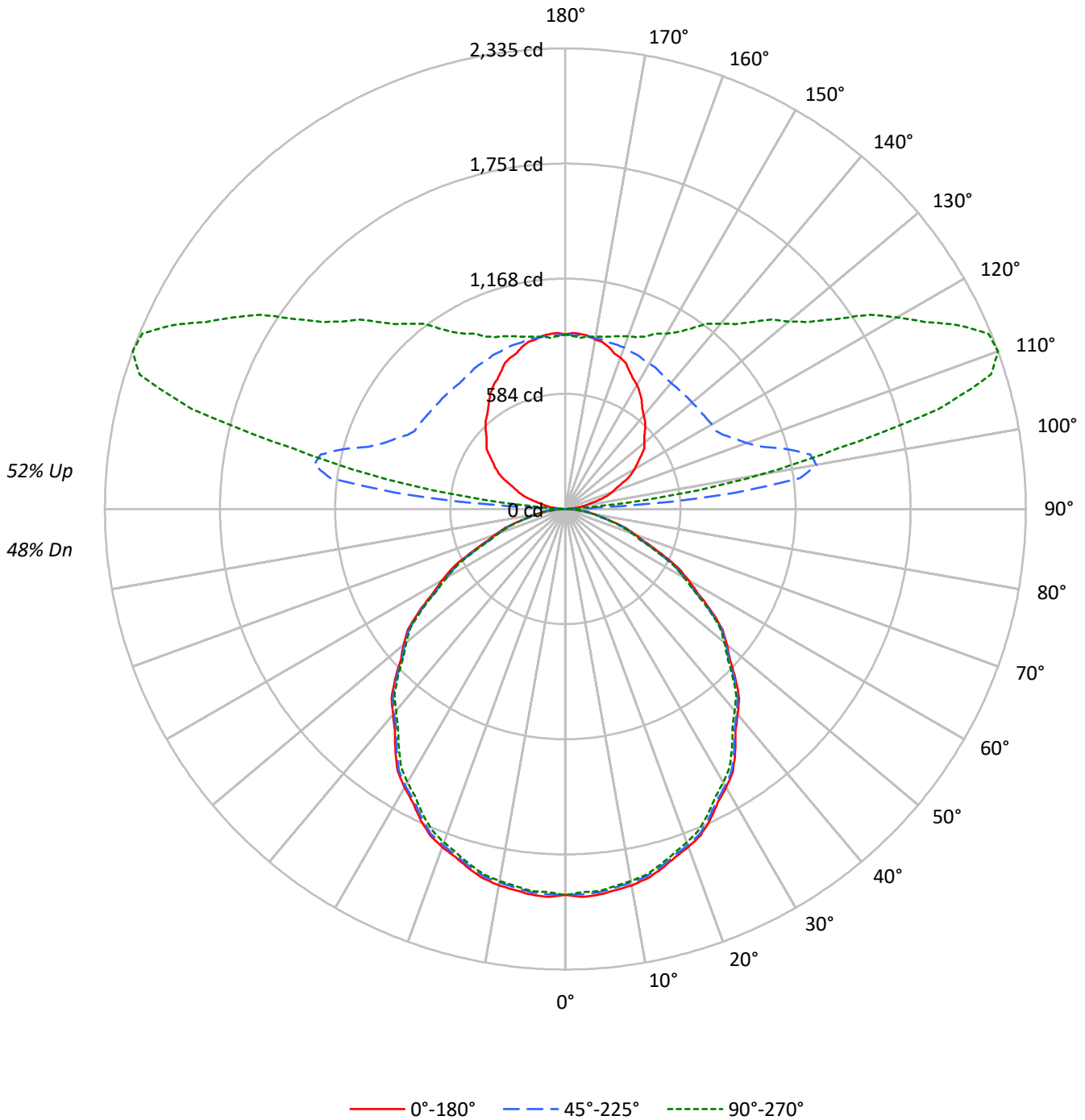
Lumens per Lamp: N/A
Luminaire Lumens: 10498.2 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48				48
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46				41	
2	89	82	76	71	82	75	70	66	63	60	56	53	50	47	42	41	39				34	
3	81	72	65	59	74	66	60	55	56	51	48	47	43	40	38	35	33				29	
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29				25	
5	68	57	49	43	63	53	45	40	45	39	35	37	33	30	30	28	25				22	
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22				19	
7	58	46	38	32	53	43	36	31	36	31	27	31	26	23	25	22	20				17	
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	18				15	
9	50	38	31	26	46	35	29	24	30	25	21	26	22	19	21	18	16				14	
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	14				12	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18046	18046	18046
5°	18179	18068	18004
10°	18149	18019	17940
15°	18028	17930	17832
20°	17909	17807	17673
25°	17696	17574	17400
30°	17368	17277	17058
35°	16914	16798	16586
40°	16373	16270	16083
45°	15926	15814	15657
50°	15354	15256	15108
55°	14560	14367	14256
60°	13254	12874	12812
65°	11677	11191	11153
70°	10081	9665	9665
75°	8677	8555	8434
80°	7651	7741	7561
85°	5992	6531	6531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.0	1.8
10°-20°	528.1	5.0
20°-30°	791.1	7.5
30°-40°	927.9	8.8
40°-50°	930.8	8.9
50°-60°	794.0	7.6
60°-70°	517.8	4.9
70°-80°	259.8	2.5
80°-90°	71.9	0.7
90°-100°	402.9	3.8
100°-110°	1146.3	10.9
110°-120°	1098.3	10.5
120°-130°	869.3	8.3
130°-140°	697.7	6.6
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°	1504.1	14.3
0°-40°	2432.0	23.2
0°-60°	4156.8	39.6
0°-90°	5006.3	47.7
90°-120°	2647.5	25.2
90°-150°	4760.6	45.3
90°-180°	5492.0	52.3
0°-180°	10498.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1956	1956	1956	1956	1956	
5°	1963	1944	1951	1944	1944	186
15°	1887	1869	1877	1870	1867	532
25°	1738	1718	1726	1711	1709	799
35°	1502	1487	1491	1474	1473	938
45°	1221	1212	1212	1200	1200	940
55°	905	902	893	888	886	804
65°	535	525	513	509	511	534
75°	243	243	240	238	237	264
85°	57	62	62	62	62	66
90°	0	0	0	0	0	4
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	

TEST NUMBER: P523920

CATALOG NUMBER: SQ4-PP3-125U-125D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1956.0	1956.0	1956.0	1956.0	1956.0
2.5°	1968.4	1952.3	1956.0	1953.1	1945.0
5°	1962.9	1944.4	1950.9	1944.0	1944.0
7.5°	1949.5	1929.4	1935.8	1928.9	1928.6
10°	1937.2	1917.0	1923.4	1916.6	1914.9
12.5°	1919.3	1899.2	1907.0	1898.8	1898.4
15°	1887.4	1869.0	1877.2	1870.2	1866.9
17.5°	1851.4	1831.3	1841.2	1831.5	1830.2
20°	1824.0	1803.9	1813.7	1800.0	1800.0
22.5°	1791.1	1771.0	1782.2	1764.4	1764.4
25°	1738.3	1718.2	1726.3	1710.8	1709.2
27.5°	1675.6	1655.8	1664.2	1646.8	1646.4
30°	1630.3	1611.9	1621.7	1602.8	1601.2
32.5°	1580.9	1563.8	1571.0	1552.1	1550.4
35°	1501.7	1486.6	1491.4	1474.3	1472.6
37.5°	1418.4	1403.0	1408.5	1393.7	1393.0
40°	1359.4	1349.4	1350.9	1338.8	1335.4
42.5°	1304.6	1293.2	1294.6	1282.6	1282.0
45°	1220.6	1212.2	1212.0	1200.0	1200.0
47.5°	1131.4	1125.1	1123.2	1113.3	1112.9
50°	1069.7	1064.7	1062.9	1054.3	1052.6
52.5°	1005.3	1002.9	997.0	989.8	989.5
55°	905.2	901.8	893.2	888.0	886.3
57.5°	796.5	789.8	780.0	772.5	773.8
60°	718.3	711.6	697.7	694.3	694.3
62.5°	642.9	634.8	620.9	616.2	618.9
65°	534.9	524.8	512.6	509.2	510.9
67.5°	436.8	427.8	414.5	414.5	413.1
70°	373.7	368.7	358.3	358.3	358.3
72.5°	317.5	315.1	307.5	307.5	306.2
75°	243.4	243.4	240.0	238.2	236.6
77.5°	182.4	183.1	181.4	179.6	176.6
80°	144.0	147.4	145.7	144.0	142.3
82.5°	108.3	111.7	111.4	108.3	108.0
85°	56.6	61.6	61.7	61.7	61.7
87.5°	15.1	20.4	21.9	22.0	23.3
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

TEST NUMBER: P523920

CATALOG NUMBER: SQ4-PP3-125U-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)