

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: P562445

Luminaire Tested: **SQ4-PW1-125U-125D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562445
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

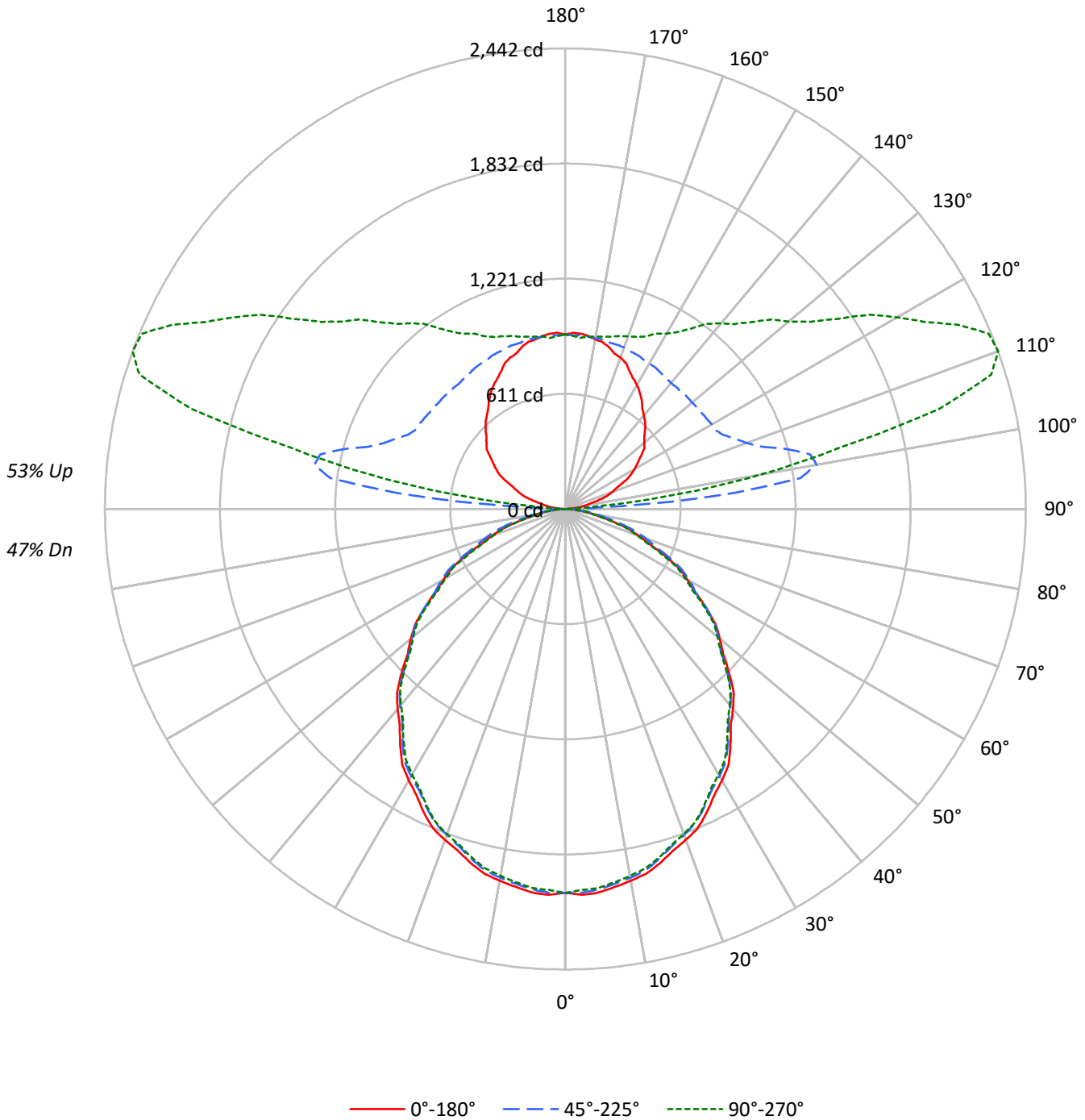
Lumens per Lamp: N/A
Luminaire Lumens: 10925.7 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 97.1
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°	18785	18785	18785
5°	18906	18757	18674
10°	18756	18604	18504
15°	18557	18351	18283
20°	18335	18053	18018
25°	18079	17750	17696
30°	17697	17429	17315
35°	17194	16952	16851
40°	16658	16399	16334
45°	16010	15800	15729
50°	15347	15217	15114
55°	14630	14630	14398
60°	13738	14002	13505
65°	12570	13197	12258
70°	11082	12147	10790
75°	9464	10872	9208
80°	7337	9149	7433
85°	4742	7029	6267



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.7	1.8
10°-20°	541.3	5.0
20°-30°	802.9	7.3
30°-40°	939.5	8.6
40°-50°	935.3	8.6
50°-60°	807.7	7.4
60°-70°	581.4	5.3
70°-80°	304.9	2.8
80°-90°	75.6	0.7
90°-100°	421.5	3.9
100°-110°	1199.2	11.0
110°-120°	1149.0	10.5
120°-130°	909.4	8.3
130°-140°	729.9	6.7
140°-150°	571.4	5.2
150°-160°	418.1	3.8
160°-170°	259.0	2.4
170°-180°	87.9	0.8
0°-30°	1535.9	14.1
0°-40°	2475.4	22.7
0°-60°	4218.4	38.6
0°-90°	5180.3	47.4
90°-120°	2769.7	25.4
90°-150°	4980.4	45.6
90°-180°	5745.0	52.6
0°-180°	10925.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2036	2036	2036	2036	2036	
5°	2041	2019	2025	2020	2016	193
15°	1943	1918	1921	1918	1914	548
25°	1776	1746	1744	1733	1738	817
35°	1527	1506	1505	1491	1496	954
45°	1227	1216	1211	1207	1206	947
55°	910	908	910	897	895	811
65°	576	593	604	581	562	571
75°	266	290	305	285	258	285
85°	45	59	66	63	59	59
90°	0	0	0	0	0	4
95°	46	182	816	282	174	52
105°	186	283	1222	2159	2052	197
115°	346	419	927	1963	2305	341
125°	489	542	884	1468	1755	438
135°	598	648	874	1240	1402	461
145°	705	741	881	1073	1169	440
155°	805	824	902	970	1009	372
165°	890	893	913	932	946	250
175°	932	927	923	918	911	88
180°	925	925	925	925	925	



TEST NUMBER: P562445

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2036.0	2036.0	2036.0	2036.0	2036.0
2.5°	2047.5	2030.7	2036.0	2031.5	2021.7
5°	2041.4	2018.6	2025.3	2019.8	2016.3
7.5°	2020.6	1999.6	2004.5	1998.7	1996.6
10°	2002.0	1980.9	1985.8	1978.6	1975.1
12.5°	1980.4	1958.0	1962.9	1955.6	1953.5
15°	1942.8	1918.2	1921.2	1917.6	1914.1
17.5°	1899.0	1874.1	1874.6	1868.8	1868.1
20°	1867.4	1841.1	1838.7	1831.6	1835.1
22.5°	1833.0	1805.3	1802.8	1792.9	1797.8
25°	1775.9	1746.1	1743.6	1733.0	1738.3
27.5°	1709.9	1680.5	1680.5	1665.6	1671.2
30°	1661.1	1633.1	1636.0	1618.2	1625.3
32.5°	1609.5	1584.2	1585.8	1568.0	1575.0
35°	1526.6	1505.5	1505.1	1490.8	1496.1
37.5°	1441.9	1423.3	1420.4	1412.2	1413.6
40°	1383.1	1367.3	1361.6	1356.2	1356.2
42.5°	1321.4	1307.0	1301.3	1297.3	1295.9
45°	1227.0	1216.5	1210.9	1207.2	1205.5
47.5°	1133.7	1123.9	1119.0	1116.5	1114.7
50°	1069.2	1062.1	1060.2	1054.8	1053.0
52.5°	1004.6	1000.4	998.5	991.6	989.9
55°	909.5	907.7	909.5	896.9	895.1
57.5°	810.5	813.3	819.1	802.1	797.9
60°	744.5	751.5	758.8	738.9	731.9
62.5°	677.0	688.2	698.5	675.7	665.9
65°	575.8	593.4	604.5	580.8	561.5
67.5°	478.2	500.0	513.4	487.8	466.0
70°	410.8	435.4	450.3	424.6	400.0
72.5°	352.0	379.3	391.4	367.2	342.6
75°	265.5	290.0	305.0	284.6	258.3
77.5°	188.4	211.5	223.9	206.2	184.4
80°	138.1	162.7	172.2	157.5	139.9
82.5°	97.9	118.3	124.9	116.0	104.0
85°	44.8	58.9	66.4	62.7	59.2
87.5°	11.5	21.3	27.3	27.3	28.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.1	74.6	173.0	50.4	38.0
95°	45.7	181.5	815.9	282.4	174.1
97.5°	84.1	212.7	1256.6	899.2	616.2
100°	110.8	231.1	1352.2	1369.7	1055.1
102.5°	140.3	251.0	1331.1	1753.2	1478.5
105°	186.4	282.7	1222.1	2158.7	2052.1
107.5°	233.2	319.5	1094.8	2273.0	2367.9
110°	265.5	346.3	1021.6	2229.2	2442.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	296.5	373.2	972.4	2125.8	2429.8
115°	346.4	418.6	926.7	1963.1	2305.3
117.5°	390.4	458.1	899.6	1785.3	2147.7
120°	425.5	482.3	896.8	1683.7	2031.0
122.5°	453.7	510.4	889.8	1594.5	1917.0
125°	488.8	542.1	884.5	1467.8	1754.9
127.5°	527.2	577.0	881.7	1392.1	1628.7
130°	546.9	596.7	877.5	1339.3	1545.7
132.5°	568.0	616.5	877.5	1298.2	1488.0
135°	597.9	647.7	873.9	1239.8	1401.5
137.5°	626.0	674.5	873.6	1190.5	1330.1
140°	647.1	697.0	872.2	1149.5	1283.6
142.5°	671.0	712.6	876.4	1116.9	1237.2
145°	705.1	741.2	881.0	1073.1	1169.4
147.5°	734.3	769.4	888.7	1028.8	1112.0
150°	759.6	783.7	891.5	1014.2	1072.6
152.5°	779.3	804.8	894.3	994.4	1048.7
155°	805.4	824.3	902.1	969.8	1009.3
157.5°	837.7	849.1	903.8	958.6	986.8
160°	854.6	863.2	910.9	950.1	974.2
162.5°	864.4	874.4	912.3	942.9	961.5
165°	889.8	893.2	912.6	932.3	946.0
167.5°	907.0	903.9	920.7	929.6	935.1
170°	912.6	910.9	917.9	919.8	926.7
172.5°	925.3	919.4	922.1	917.0	922.5
175°	932.0	926.8	923.2	917.7	910.9
177.5°	934.8	926.5	922.1	916.5	917.9
180°	924.9	924.9	924.9	924.9	924.9

(END OF REPORT)