

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: P562237

Luminaire Tested: **SQ4-PW1-050U-125D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562237
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-PW1-050U-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 500 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: 7463.8 lumens
Efficiency: N/A
Efficacy: 104.4 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: Semi-Direct

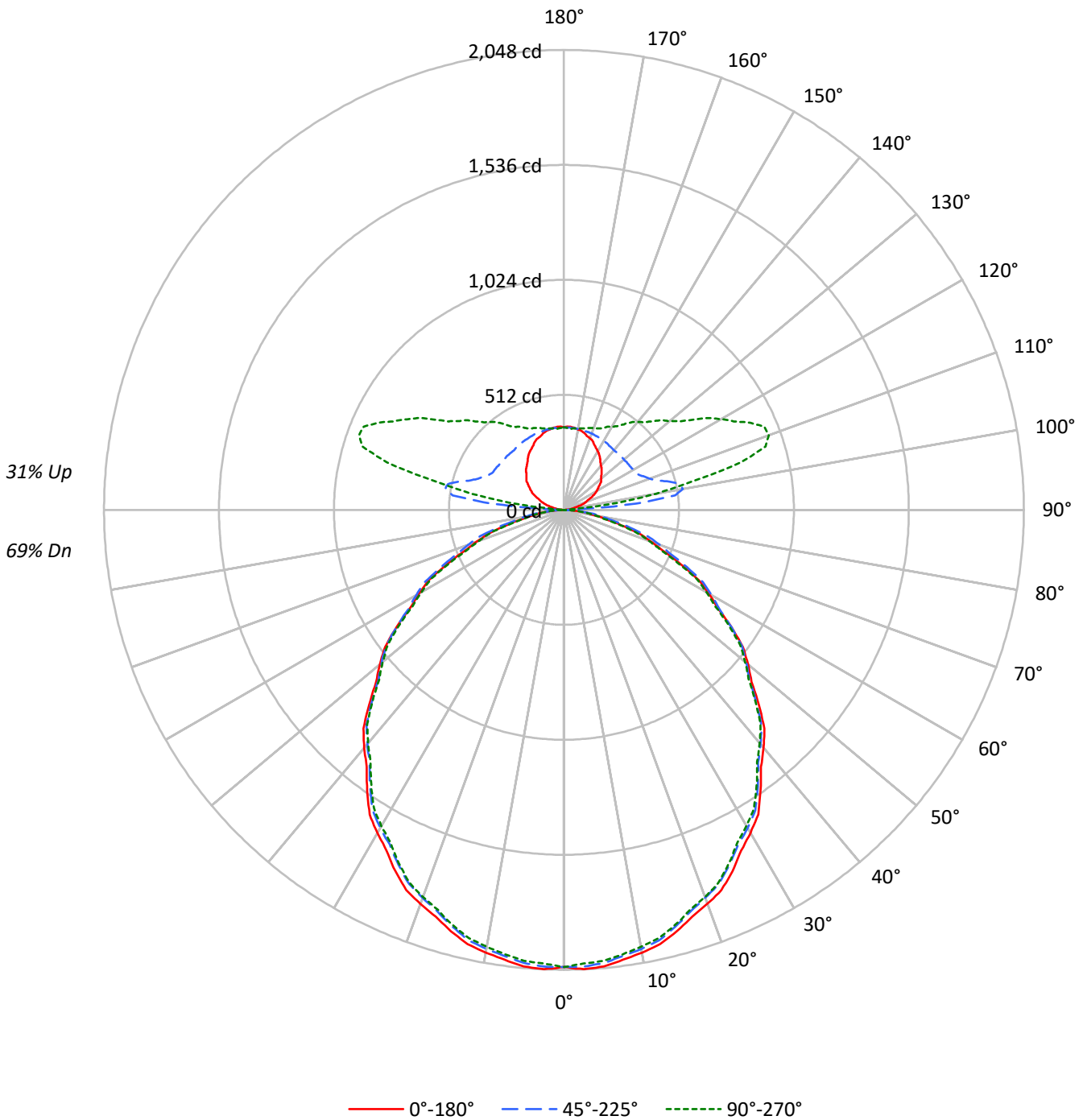
Input Watts (W): 71.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	69
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	64	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	55	53	49
3	85	75	68	62	80	72	65	59	64	59	55	58	53	50	51	48	45	42
4	78	67	59	53	73	64	56	51	57	51	47	51	47	43	46	42	39	36
5	72	60	51	45	68	57	49	44	51	45	40	46	41	37	41	37	34	31
6	66	54	45	39	62	51	44	38	46	40	35	42	37	33	38	33	30	28
7	61	49	40	35	58	46	39	34	42	36	31	38	33	29	34	30	27	24
8	57	44	36	31	54	42	35	30	39	32	28	35	30	26	32	27	24	22
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	29	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	27	23	20	18

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	2.6
10°-20°	541.3	7.3
20°-30°	802.9	10.8
30°-40°	939.5	12.6
40°-50°	935.3	12.5
50°-60°	807.7	10.8
60°-70°	581.4	7.8
70°-80°	304.9	4.1
80°-90°	75.6	1.0
90°-100°	167.5	2.2
100°-110°	476.6	6.4
110°-120°	456.7	6.1
120°-130°	361.4	4.8
130°-140°	290.1	3.9
140°-150°	227.1	3.0
150°-160°	166.2	2.2
160°-170°	102.9	1.4
170°-180°	34.9	0.5
0°-30°	1535.9	20.6
0°-40°	2475.4	33.2
0°-60°	4218.4	56.5
0°-90°	5180.3	69.4
90°-120°	1100.8	14.7
90°-150°	1979.5	26.5
90°-180°	2283.0	30.6
0°-180°	7463.8	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	2
95°	18	72	324	112	69	21
105°	74	112	486	858	816	78
115°	138	166	368	780	916	136
125°	194	216	352	583	698	174
135°	238	257	347	493	557	183
145°	280	295	350	426	465	175
155°	320	328	358	385	401	148
165°	354	355	363	370	376	99
175°	370	368	367	365	362	35
180°	368	368	368	368	368	

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CATALOG NUMBER: SQ4-PW1-050U-125D-92765-1D-UNV-STD-W-4 (5000K)

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°	5.6	29.6	68.8	20.0	15.1
95°	18.2	72.2	324.3	112.2	69.2
97.5°	33.4	84.5	499.4	357.4	244.9
100°	44.0	91.9	537.4	544.4	419.3
102.5°	55.8	99.8	529.1	696.8	587.6
105°	74.1	112.3	485.7	858.0	815.6
107.5°	92.7	127.0	435.1	903.4	941.1
110°	105.5	137.6	406.1	886.0	970.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	117.8	148.3	386.5	844.9	965.7
115°	137.7	166.4	368.3	780.3	916.2
117.5°	155.2	182.1	357.6	709.6	853.6
120°	169.1	191.7	356.4	669.2	807.2
122.5°	180.3	202.9	353.6	633.7	761.9
125°	194.3	215.5	351.5	583.4	697.5
127.5°	209.5	229.3	350.4	553.3	647.3
130°	217.4	237.2	348.7	532.3	614.3
132.5°	225.7	245.0	348.7	516.0	591.4
135°	237.6	257.4	347.3	492.8	557.0
137.5°	248.8	268.1	347.2	473.1	528.6
140°	257.2	277.0	346.6	456.9	510.2
142.5°	266.7	283.2	348.3	443.9	491.7
145°	280.3	294.6	350.1	426.5	464.8
147.5°	291.9	305.8	353.2	408.9	442.0
150°	301.9	311.5	354.3	403.1	426.3
152.5°	309.7	319.9	355.5	395.2	416.8
155°	320.1	327.6	358.5	385.4	401.2
157.5°	332.9	337.5	359.2	381.0	392.2
160°	339.7	343.1	362.0	377.6	387.2
162.5°	343.6	347.5	362.6	374.8	382.2
165°	353.6	355.0	362.7	370.5	376.0
167.5°	360.5	359.3	365.9	369.5	371.7
170°	362.7	362.0	364.8	365.6	368.3
172.5°	367.8	365.4	366.5	364.4	366.6
175°	370.4	368.4	366.9	364.8	362.0
177.5°	371.5	368.2	366.5	364.3	364.8
180°	367.6	367.6	367.6	367.6	367.6

(END OF REPORT)