

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: P561871

Luminaire Tested: **SQ4-PR1-050U-125D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561871
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-050U-125D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7290.4 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

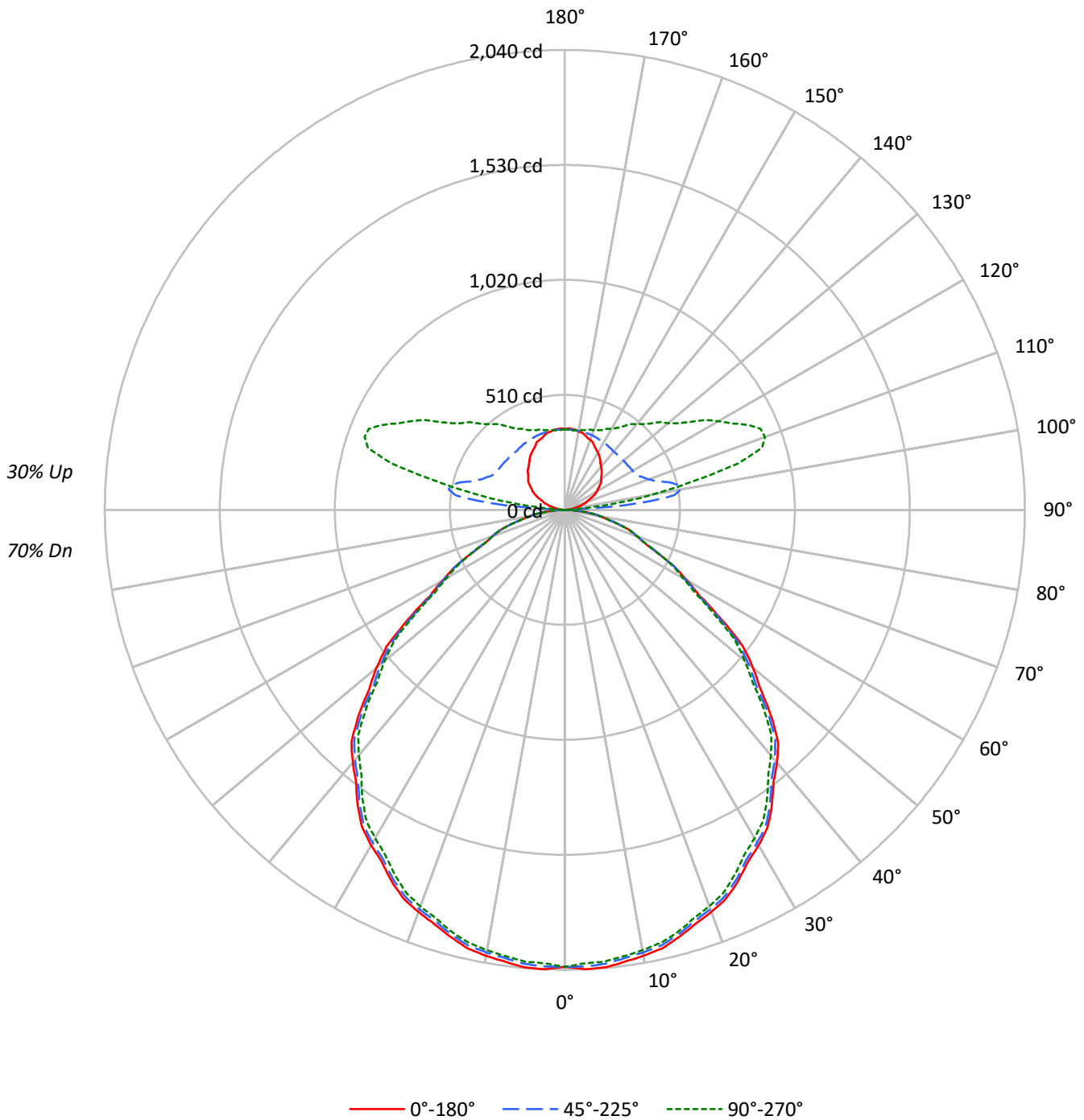
Input Watts (W): 71.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	103	98	94	91	97	93	90	87	83	81	78	74	72	71	66	65	63	59
2	94	86	80	75	88	82	76	72	74	69	66	66	63	60	59	56	54	50
3	86	76	69	63	81	72	66	60	65	60	56	59	54	51	52	49	46	43
4	79	68	60	54	74	64	57	52	58	52	48	52	48	44	47	43	40	37
5	72	61	52	46	68	58	50	45	52	46	42	47	42	38	43	39	35	33
6	67	55	46	40	63	52	45	39	47	41	36	43	38	34	39	34	31	29
7	62	50	41	36	59	47	40	35	43	37	32	39	34	30	35	31	28	26
8	58	45	37	32	54	43	36	31	39	33	29	36	31	27	33	28	25	23
9	54	41	34	28	51	40	32	28	36	30	26	33	28	24	30	26	23	21
10	50	38	31	26	48	36	30	25	33	28	24	31	26	22	28	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18703	18703	18703
5°	18872	18727	18629
10°	18812	18681	18582
15°	18729	18612	18512
20°	18635	18515	18378
25°	18504	18379	18166
30°	18304	18174	17914
35°	18033	17877	17621
40°	17623	17434	17118
45°	16905	16609	16267
50°	15639	15263	14962
55°	13650	13341	13060
60°	11501	11405	11180
65°	9948	9988	9911
70°	9137	9185	9185
75°	8776	8776	8837
80°	8257	8347	8257
85°	6659	7389	7389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.7	2.6
10°-20°	548.5	7.5
20°-30°	827.3	11.3
30°-40°	985.7	13.5
40°-50°	971.8	13.3
50°-60°	742.7	10.2
60°-70°	459.6	6.3
70°-80°	261.1	3.6
80°-90°	79.4	1.1
90°-100°	163.0	2.2
100°-110°	463.9	6.4
110°-120°	444.5	6.1
120°-130°	351.8	4.8
130°-140°	282.4	3.9
140°-150°	221.1	3.0
150°-160°	161.8	2.2
160°-170°	100.2	1.4
170°-180°	34.0	0.5
0°-30°	1567.5	21.5
0°-40°	2553.2	35.0
0°-60°	4267.7	58.5
0°-90°	5067.8	69.5
90°-120°	1071.5	14.7
90°-150°	1926.7	26.4
90°-180°	2223.0	30.5
0°-180°	7290.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2027	2027	2027	2027	2027	
5°	2038	2016	2022	2015	2012	193
15°	1961	1940	1949	1942	1938	553
25°	1818	1796	1805	1786	1784	836
35°	1601	1582	1587	1566	1564	999
45°	1296	1278	1273	1250	1247	993
55°	849	835	829	815	812	760
65°	456	452	458	454	454	462
75°	246	246	246	248	248	260
85°	63	66	70	70	70	73
90°	0	0	0	0	0	3
95°	18	70	316	109	67	20
105°	72	109	473	835	794	76
115°	134	162	358	760	892	132
125°	189	210	342	568	679	169
135°	231	251	338	480	542	178
145°	273	287	341	415	452	170
155°	312	319	349	375	390	144
165°	344	346	353	361	366	97
175°	360	358	357	355	352	34
180°	358	358	358	358	358	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2027.2	2027.2	2027.2	2027.2	2027.2
2.5°	2039.8	2022.0	2027.2	2022.8	2013.2
5°	2037.7	2015.5	2022.0	2014.9	2011.5
7.5°	2022.0	2000.1	2006.6	1999.6	1997.5
10°	2008.0	1987.5	1994.0	1987.0	1983.5
12.5°	1992.6	1970.8	1978.7	1970.2	1966.8
15°	1960.8	1940.4	1948.6	1941.6	1938.1
17.5°	1925.9	1904.1	1912.3	1904.2	1899.7
20°	1898.0	1877.5	1885.8	1873.5	1871.8
22.5°	1867.3	1846.8	1855.0	1838.6	1838.3
25°	1817.7	1795.5	1805.4	1786.2	1784.5
27.5°	1758.6	1738.2	1746.4	1726.8	1724.8
30°	1718.1	1697.6	1705.9	1684.9	1681.5
32.5°	1672.0	1652.9	1659.8	1638.8	1636.8
35°	1601.1	1582.4	1587.2	1566.2	1564.5
37.5°	1520.5	1503.4	1506.2	1483.1	1481.4
40°	1463.2	1446.1	1447.5	1423.0	1421.3
42.5°	1400.4	1383.3	1381.8	1357.4	1355.7
45°	1295.6	1278.5	1272.9	1250.1	1246.7
47.5°	1176.2	1159.1	1148.6	1130.0	1127.6
50°	1089.6	1072.5	1063.4	1047.5	1042.4
52.5°	996.0	978.9	971.2	956.7	951.6
55°	848.6	834.9	829.4	815.3	811.9
57.5°	708.6	699.3	697.7	684.1	682.7
60°	623.3	618.2	618.1	605.9	605.9
62.5°	550.7	547.0	549.7	541.6	540.2
65°	455.7	452.3	457.5	454.0	454.0
67.5°	380.6	380.6	383.8	382.4	382.4
70°	338.7	338.7	340.5	340.5	340.5
72.5°	301.0	299.7	304.2	304.1	302.8
75°	246.2	246.2	246.2	247.9	247.9
77.5°	191.7	192.1	193.5	193.1	191.7
80°	155.4	157.1	157.1	155.4	155.4
82.5°	119.1	120.8	120.8	120.4	119.1
85°	62.9	66.3	69.8	69.8	69.8
87.5°	18.2	23.6	27.9	27.9	26.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.4	28.9	66.9	19.5	14.7
95°	17.7	70.2	315.6	109.3	67.3
97.5°	32.5	82.3	486.1	347.8	238.4
100°	42.9	89.4	523.1	529.9	408.2
102.5°	54.3	97.1	515.0	678.3	572.0
105°	72.1	109.4	472.8	835.1	793.9
107.5°	90.2	123.6	423.5	879.3	916.0
110°	102.7	134.0	395.2	862.4	944.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	<i>114.7</i>	144.4	376.2	822.4	940.0
115°	<i>134.0</i>	161.9	358.5	759.5	891.8
117.5°	<i>151.0</i>	177.2	348.0	690.7	830.9
120°	<i>164.6</i>	186.6	346.9	651.3	785.7
122.5°	<i>175.5</i>	197.5	344.2	616.8	741.6
125°	<i>189.1</i>	209.7	342.2	567.8	678.9
127.5°	<i>203.9</i>	223.2	341.1	538.5	630.1
130°	<i>211.6</i>	230.9	339.5	518.1	598.0
132.5°	<i>219.7</i>	238.5	339.5	502.2	575.6
135°	<i>231.3</i>	250.6	338.1	479.6	542.2
137.5°	<i>242.2</i>	260.9	338.0	460.5	514.6
140°	<i>250.3</i>	269.6	337.4	444.7	496.6
142.5°	<i>259.6</i>	275.7	339.0	432.1	478.6
145°	<i>272.8</i>	286.8	340.8	415.1	452.4
147.5°	<i>284.1</i>	297.6	343.8	398.0	430.2
150°	<i>293.9</i>	303.2	344.9	392.3	415.0
152.5°	<i>301.5</i>	311.3	346.0	384.7	405.7
155°	<i>311.6</i>	318.9	349.0	375.2	390.5
157.5°	<i>324.1</i>	328.5	349.7	370.9	381.8
160°	<i>330.6</i>	333.9	352.4	367.6	376.9
162.5°	<i>334.4</i>	338.3	352.9	364.8	372.0
165°	<i>344.2</i>	345.5	353.1	360.7	366.0
167.5°	<i>350.9</i>	349.7	356.2	359.6	361.8
170°	<i>353.1</i>	352.4	355.1	355.8	358.5
172.5°	<i>358.0</i>	355.7	356.7	354.7	356.9
175°	<i>360.5</i>	358.5	357.1	355.0	352.4
177.5°	<i>361.6</i>	358.4	356.7	354.6	355.1
180°	<i>357.8</i>	357.8	357.8	357.8	357.8

(END OF REPORT)