

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: P523711

Luminaire Tested: **SQ4-PP3-050U-125D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523711
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-PP3-050U-125D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7020.6 lumens
Efficiency: N/A
Efficacy: 98.2 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: Semi-Direct

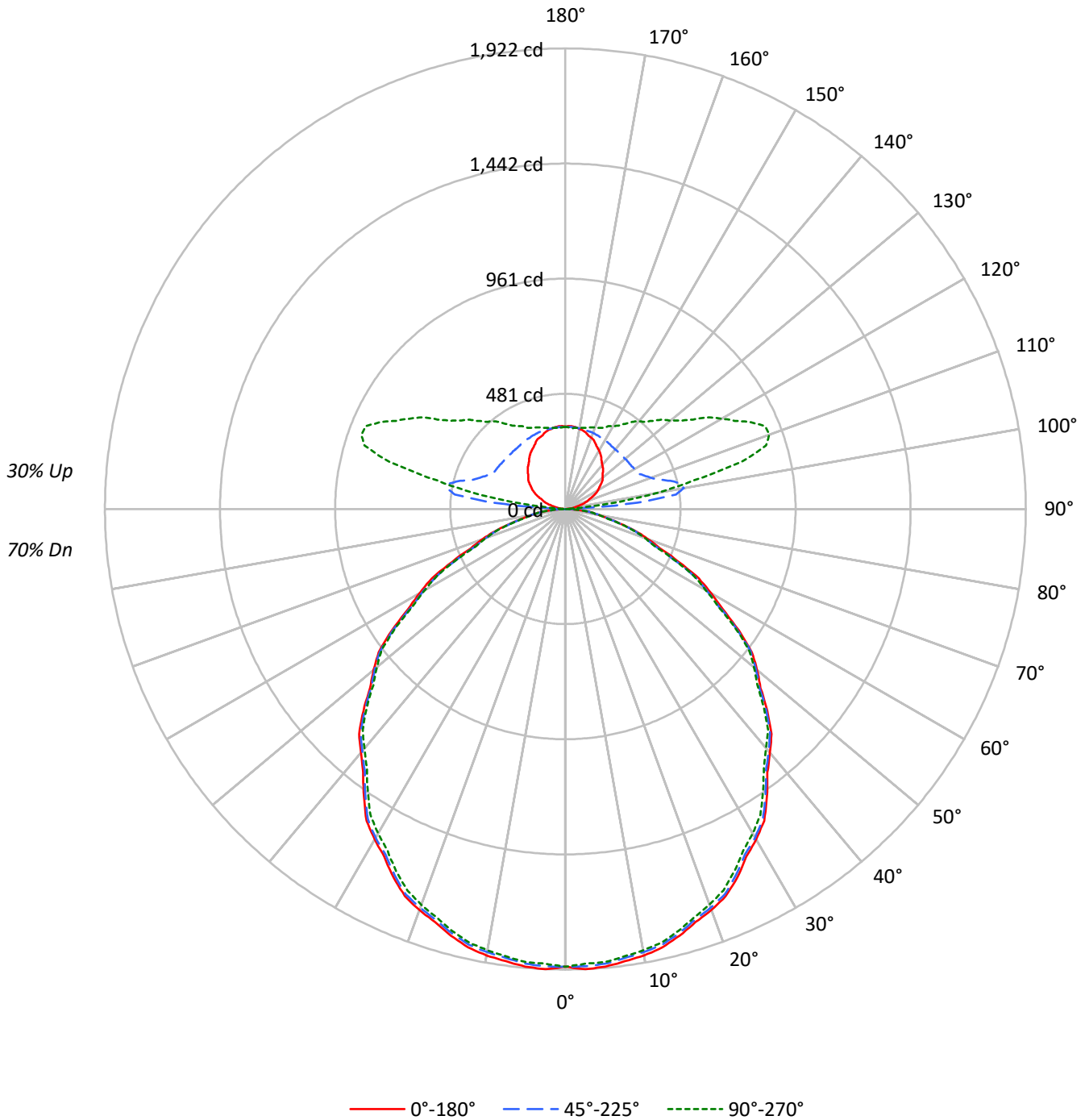
Input Watts (W): 71.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
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	102	98	94	91	97	93	90	86	83	81	78	74	72	71	66	65	63	59		
2	94	86	80	75	88	82	76	71	73	69	65	66	62	59	58	56	54	50		
3	86	76	68	62	81	72	65	60	65	59	55	58	54	50	52	49	46	43		
4	78	67	59	53	74	64	57	51	58	52	47	52	47	43	47	43	40	37		
5	72	60	52	46	68	57	50	44	52	46	41	47	42	38	42	38	35	32		
6	66	54	46	40	63	52	44	38	47	40	36	42	37	33	38	34	31	28		
7	62	49	41	35	58	47	39	34	43	36	32	39	33	29	35	31	27	25		
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	32	28	24	22		
9	53	41	33	28	50	39	32	27	36	30	25	33	27	24	30	25	22	20		
10	50	38	30	25	47	36	29	24	33	27	23	30	25	22	27	23	20	18		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17624	17624	17624
5°	17753	17645	17583
10°	17723	17598	17519
15°	17606	17510	17414
20°	17489	17390	17259
25°	17282	17161	16991
30°	16961	16872	16658
35°	16517	16405	16197
40°	15990	15888	15707
45°	15553	15443	15291
50°	14995	14899	14754
55°	14218	14030	13922
60°	12944	12573	12511
65°	11402	10929	10892
70°	9846	9439	9439
75°	8473	8356	8235
80°	7470	7561	7385
85°	5843	6383	6383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	2.6
10°-20°	515.7	7.3
20°-30°	772.5	11.0
30°-40°	906.1	12.9
40°-50°	909.0	12.9
50°-60°	775.4	11.0
60°-70°	505.7	7.2
70°-80°	253.7	3.6
80°-90°	70.2	1.0
90°-100°	156.4	2.2
100°-110°	444.9	6.3
110°-120°	426.3	6.1
120°-130°	337.4	4.8
130°-140°	270.8	3.9
140°-150°	212.0	3.0
150°-160°	155.1	2.2
160°-170°	96.1	1.4
170°-180°	32.6	0.5
0°-30°	1468.9	20.9
0°-40°	2375.0	33.8
0°-60°	4059.4	57.8
0°-90°	4889.0	69.6
90°-120°	1027.6	14.6
90°-150°	1847.8	26.3
90°-180°	2132.0	30.4
0°-180°	7020.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1910	1910	1910	1910	1910	
5°	1917	1899	1905	1898	1898	182
15°	1843	1825	1833	1826	1823	520
25°	1698	1678	1686	1671	1669	781
35°	1466	1452	1456	1440	1438	916
45°	1192	1184	1184	1172	1172	918
55°	884	881	872	867	866	786
65°	522	512	501	497	499	521
75°	238	238	234	233	231	258
85°	55	60	60	60	60	65
90°	0	0	0	0	0	3
95°	17	67	303	105	65	19
105°	69	105	453	801	761	73
115°	128	155	344	728	855	127
125°	181	201	328	545	651	162
135°	222	240	324	460	520	171
145°	262	275	327	398	434	163
155°	299	306	335	360	374	138
165°	330	331	339	346	351	93
175°	346	344	342	340	338	33
180°	343	343	343	343	343	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1910.2	1910.2	1910.2	1910.2	1910.2
2.5°	1922.2	1906.5	1910.2	1907.3	1899.5
5°	1916.9	1898.9	1905.2	1898.5	1898.5
7.5°	1903.8	1884.2	1890.4	1883.7	1883.4
10°	1891.8	1872.1	1878.4	1871.6	1870.0
12.5°	1874.4	1854.7	1862.3	1854.3	1853.9
15°	1843.2	1825.2	1833.2	1826.4	1823.1
17.5°	1808.1	1788.4	1798.0	1788.6	1787.3
20°	1781.3	1761.6	1771.2	1757.8	1757.8
22.5°	1749.1	1729.5	1740.4	1723.0	1723.0
25°	1697.6	1677.9	1685.8	1670.7	1669.1
27.5°	1636.3	1617.0	1625.2	1608.2	1607.8
30°	1592.1	1574.1	1583.7	1565.3	1563.6
32.5°	1543.9	1527.2	1534.2	1515.7	1514.1
35°	1466.5	1451.8	1456.5	1439.7	1438.1
37.5°	1385.2	1370.1	1375.5	1361.1	1360.4
40°	1327.6	1317.8	1319.2	1307.4	1304.1
42.5°	1274.0	1262.9	1264.3	1252.6	1251.9
45°	1192.0	1183.8	1183.6	1171.9	1171.9
47.5°	1104.9	1098.7	1096.9	1087.2	1086.8
50°	1044.7	1039.7	1038.0	1029.6	1027.9
52.5°	981.7	979.4	973.7	966.6	966.3
55°	883.9	880.7	872.2	867.2	865.5
57.5°	777.8	771.3	761.7	754.4	755.7
60°	701.5	694.9	681.4	678.0	678.0
62.5°	627.8	619.9	606.4	601.7	604.4
65°	522.3	512.5	500.6	497.3	498.9
67.5°	426.6	417.7	404.8	404.8	403.5
70°	365.0	360.0	349.9	349.9	349.9
72.5°	310.0	307.8	300.3	300.3	299.0
75°	237.7	237.7	234.4	232.7	231.0
77.5°	178.1	178.8	177.1	175.4	172.4
80°	140.6	143.9	142.3	140.6	139.0
82.5°	105.8	109.1	108.8	105.8	105.5
85°	55.2	60.2	60.3	60.3	60.3
87.5°	14.7	20.0	21.4	21.5	22.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.2	27.7	64.2	18.7	14.1
95°	17.0	67.4	302.7	104.8	64.6
97.5°	31.2	78.9	466.2	333.6	228.6
100°	41.1	85.8	501.7	508.2	391.4
102.5°	52.1	93.1	493.9	650.5	548.5
105°	69.2	104.9	453.4	800.9	761.3
107.5°	86.5	118.5	406.2	843.3	878.5
110°	98.5	128.5	379.0	827.1	906.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	<i>110.0</i>	138.4	360.8	788.7	901.5
115°	<i>128.5</i>	155.3	343.8	728.3	855.3
117.5°	<i>144.8</i>	170.0	333.8	662.4	796.8
120°	<i>157.9</i>	178.9	332.7	624.7	753.5
122.5°	<i>168.3</i>	189.4	330.1	591.6	711.2
125°	<i>181.4</i>	201.1	328.2	544.6	651.1
127.5°	<i>195.6</i>	214.1	327.1	516.5	604.2
130°	<i>202.9</i>	221.4	325.5	496.9	573.4
132.5°	<i>210.7</i>	228.7	325.5	481.6	552.1
135°	<i>221.8</i>	240.3	324.2	460.0	520.0
137.5°	<i>232.3</i>	250.2	324.1	441.7	493.5
140°	<i>240.1</i>	258.6	323.6	426.5	476.2
142.5°	<i>249.0</i>	264.4	325.2	414.4	459.0
145°	<i>261.6</i>	275.0	326.8	398.1	433.8
147.5°	<i>272.4</i>	285.5	329.7	381.7	412.6
150°	<i>281.8</i>	290.8	330.8	376.3	398.0
152.5°	<i>289.1</i>	298.6	331.8	368.9	389.1
155°	<i>298.8</i>	305.8	334.7	359.8	374.5
157.5°	<i>310.8</i>	315.0	335.3	355.7	366.1
160°	<i>317.1</i>	320.3	337.9	352.5	361.4
162.5°	<i>320.7</i>	324.4	338.5	349.8	356.7
165°	<i>330.1</i>	331.4	338.6	345.9	351.0
167.5°	<i>336.5</i>	335.4	341.6	344.9	346.9
170°	<i>338.6</i>	338.0	340.5	341.3	343.8
172.5°	<i>343.3</i>	341.1	342.1	340.2	342.2
175°	<i>345.8</i>	343.9	342.5	340.5	337.9
177.5°	<i>346.8</i>	343.7	342.1	340.0	340.5
180°	<i>343.2</i>	343.2	343.2	343.2	343.2

(END OF REPORT)