

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: P523712

Luminaire Tested: **SQ4-PP3-050U-125D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523712
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7189.1 lumens
Efficiency: N/A
Efficacy: 100.4 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

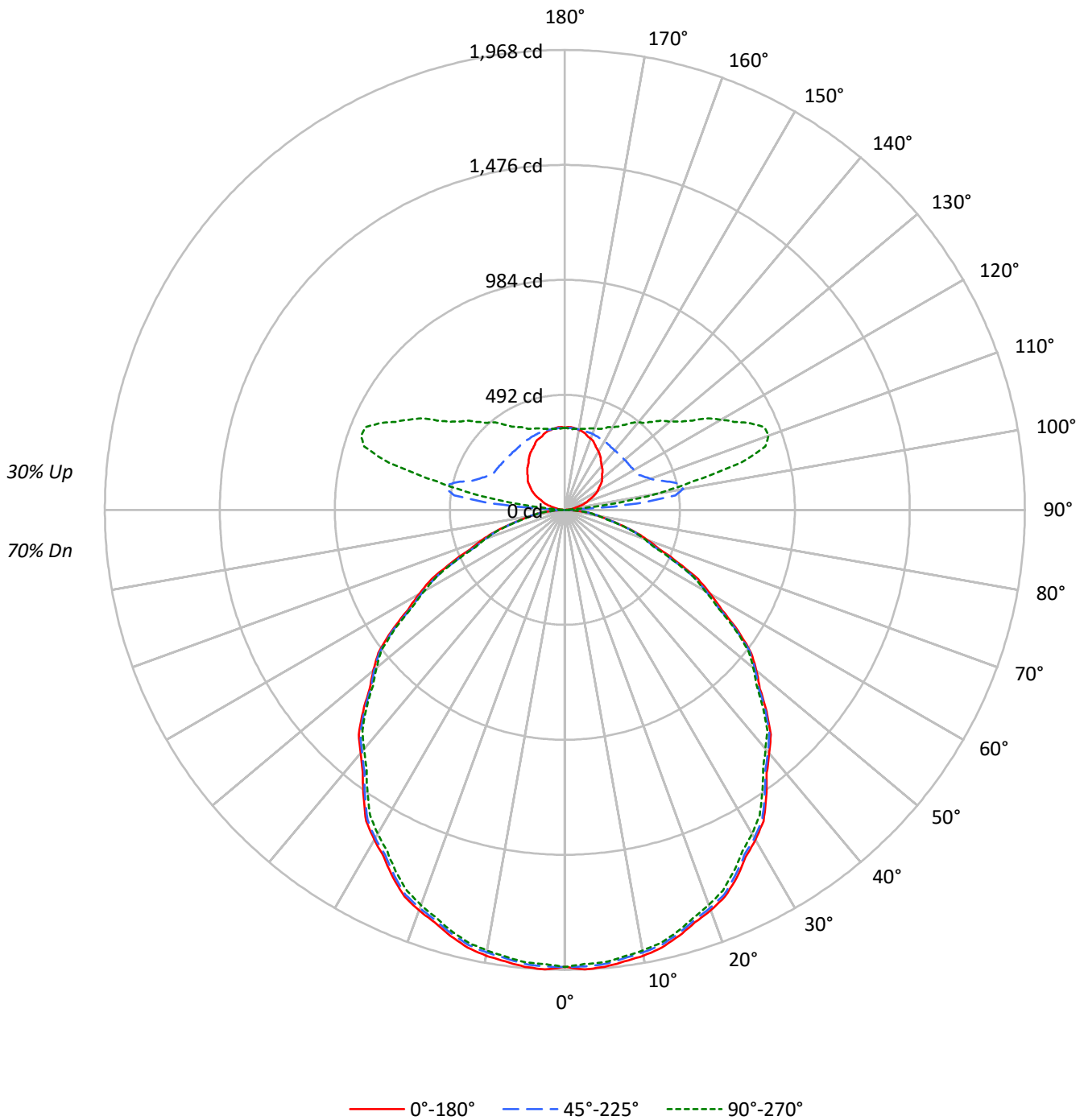
Input Watts (W): 71.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	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	2.6
10°-20°	528.1	7.3
20°-30°	791.1	11.0
30°-40°	927.9	12.9
40°-50°	930.8	12.9
50°-60°	794.0	11.0
60°-70°	517.8	7.2
70°-80°	259.8	3.6
80°-90°	71.9	1.0
90°-100°	160.1	2.2
100°-110°	455.6	6.3
110°-120°	436.5	6.1
120°-130°	345.5	4.8
130°-140°	277.3	3.9
140°-150°	217.1	3.0
150°-160°	158.8	2.2
160°-170°	98.4	1.4
170°-180°	33.4	0.5
0°-30°	1504.1	20.9
0°-40°	2432.0	33.8
0°-60°	4156.8	57.8
0°-90°	5006.3	69.6
90°-120°	1052.2	14.6
90°-150°	1892.1	26.3
90°-180°	2183.0	30.4
0°-180°	7189.1	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	3
95°	17	69	310	107	66	20
105°	71	107	464	820	780	75
115°	132	159	352	746	876	130
125°	186	206	336	558	667	166
135°	227	246	332	471	532	175
145°	268	282	335	408	444	167
155°	306	313	343	368	384	141
165°	338	339	347	354	359	95
175°	354	352	351	349	346	34
180°	351	351	351	351	351	

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CATALOG NUMBER: SQ4-PP3-050U-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°	5.3	28.3	65.7	19.1	14.4
95°	17.4	69.0	310.0	107.3	66.1
97.5°	31.9	80.8	477.4	341.6	234.1
100°	42.1	87.8	513.7	520.4	400.8
102.5°	53.3	95.4	505.7	666.1	561.7
105°	70.8	107.4	464.3	820.1	779.6
107.5°	88.6	121.4	415.9	863.5	899.6
110°	100.9	131.6	388.1	846.9	927.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	112.6	141.8	369.4	807.6	923.1
115°	131.6	159.0	352.1	745.8	875.8
117.5°	148.3	174.0	341.8	678.3	815.9
120°	161.7	183.2	340.7	639.6	771.6
122.5°	172.4	193.9	338.0	605.8	728.3
125°	185.7	206.0	336.0	557.6	666.7
127.5°	200.3	219.2	335.0	528.9	618.7
130°	207.8	226.7	333.4	508.8	587.2
132.5°	215.8	234.2	333.4	493.2	565.3
135°	227.1	246.1	332.0	471.0	532.4
137.5°	237.8	256.2	331.9	452.3	505.3
140°	245.8	264.8	331.3	436.7	487.7
142.5°	254.9	270.7	333.0	424.3	470.0
145°	267.9	281.6	334.7	407.7	444.2
147.5°	279.0	292.3	337.6	390.9	422.5
150°	288.6	297.7	338.7	385.3	407.5
152.5°	296.1	305.7	339.8	377.8	398.4
155°	306.0	313.1	342.7	368.4	383.5
157.5°	318.3	322.6	343.4	364.2	374.9
160°	324.7	327.9	346.0	361.0	370.1
162.5°	328.4	332.2	346.6	358.2	365.3
165°	338.0	339.3	346.7	354.2	359.4
167.5°	344.6	343.4	349.8	353.2	355.3
170°	346.7	346.1	348.7	349.4	352.1
172.5°	351.5	349.3	350.3	348.4	350.5
175°	354.1	352.1	350.7	348.7	346.0
177.5°	355.1	352.0	350.3	348.2	348.7
180°	351.4	351.4	351.4	351.4	351.4

(END OF REPORT)