

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: P523702

Luminaire Tested: **SQ4-PP3-050U-100D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523702
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-100D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1000 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: 6420.3 lumens
Efficiency: N/A
Efficacy: 110.5 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

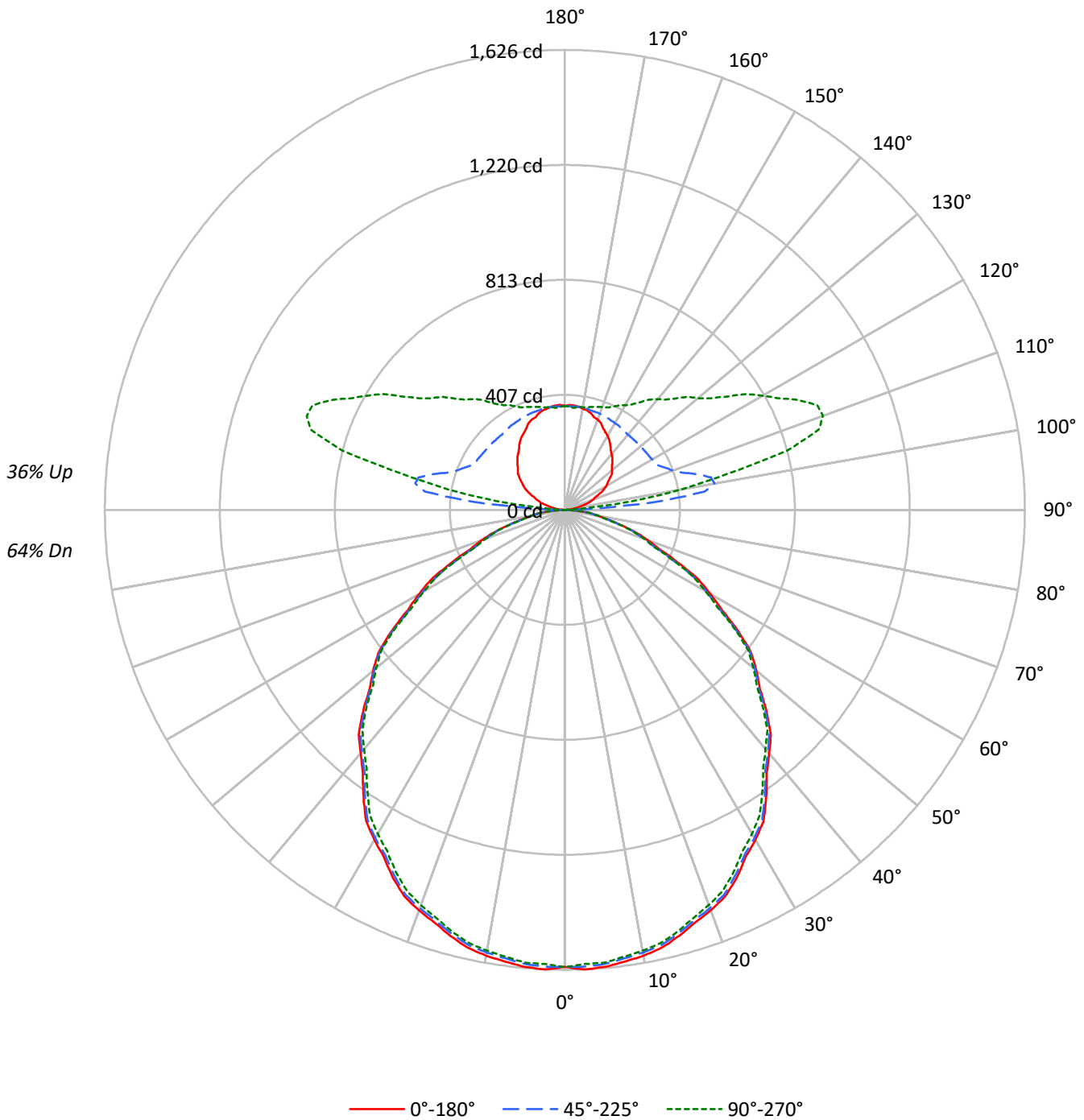
Input Watts (W): 58.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	64
1	101	97	93	90	95	91	88	85	81	78	76	71	69	67	62	60	59	55
2	92	85	79	74	87	80	75	70	71	67	63	62	59	57	55	52	50	46
3	84	75	67	62	79	71	64	59	63	58	53	55	51	48	49	46	43	39
4	77	66	58	52	72	63	56	50	56	50	46	49	45	41	44	40	37	34
5	71	59	51	45	67	56	49	43	50	44	39	44	40	36	39	35	32	30
6	66	53	45	39	61	51	43	38	45	39	35	40	35	32	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	31	37	32	28	33	29	25	23
8	56	44	36	31	53	42	34	29	38	32	27	34	29	25	30	26	23	21
9	53	40	33	27	49	38	31	26	34	29	24	31	26	23	28	24	21	19
10	49	37	30	25	46	35	28	24	32	26	22	29	24	20	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14912	14912	14912
5°	15021	14929	14878
10°	14996	14890	14824
15°	14897	14816	14734
20°	14798	14715	14604
25°	14623	14522	14377
30°	14351	14277	14096
35°	13976	13881	13705
40°	13529	13443	13291
45°	13160	13067	12938
50°	12687	12607	12485
55°	12030	11871	11781
60°	10952	10638	10586
65°	9649	9245	9215
70°	8330	7987	7987
75°	7169	7069	6969
80°	6323	6397	6248
85°	4944	5399	5399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.8	2.4
10°-20°	436.4	6.8
20°-30°	653.7	10.2
30°-40°	766.7	11.9
40°-50°	769.1	12.0
50°-60°	656.1	10.2
60°-70°	427.9	6.7
70°-80°	214.7	3.3
80°-90°	59.4	0.9
90°-100°	167.5	2.6
100°-110°	476.6	7.4
110°-120°	456.7	7.1
120°-130°	361.4	5.6
130°-140°	290.1	4.5
140°-150°	227.1	3.5
150°-160°	166.2	2.6
160°-170°	102.9	1.6
170°-180°	34.9	0.5
0°-30°	1242.9	19.4
0°-40°	2009.6	31.3
0°-60°	3434.8	53.5
0°-90°	4136.8	64.4
90°-120°	1100.8	17.1
90°-150°	1979.5	30.8
90°-180°	2283.0	35.6
0°-180°	6420.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1616	1616	1616	1616	1616	
5°	1622	1607	1612	1606	1606	154
15°	1560	1544	1551	1545	1543	440
25°	1436	1420	1426	1414	1412	660
35°	1241	1228	1232	1218	1217	775
45°	1009	1002	1002	992	992	777
55°	748	745	738	734	732	665
65°	442	434	424	421	422	441
75°	201	201	198	197	196	218
85°	47	51	51	51	51	55
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-PP3-050U-100D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1616.3	1616.3	1616.3	1616.3	1616.3
2.5°	1626.5	1613.2	1616.3	1613.9	1607.2
5°	1621.9	1606.7	1612.0	1606.4	1606.4
7.5°	1610.9	1594.3	1599.6	1593.9	1593.6
10°	1600.7	1584.1	1589.4	1583.7	1582.3
12.5°	1586.0	1569.3	1575.8	1569.0	1568.7
15°	1559.6	1544.4	1551.1	1545.4	1542.6
17.5°	1529.9	1513.2	1521.4	1513.4	1512.3
20°	1507.2	1490.6	1498.7	1487.4	1487.4
22.5°	1480.0	1463.4	1472.6	1457.9	1457.9
25°	1436.4	1419.8	1426.5	1413.7	1412.3
27.5°	1384.5	1368.2	1375.2	1360.7	1360.5
30°	1347.1	1331.9	1340.1	1324.4	1323.1
32.5°	1306.3	1292.2	1298.1	1282.5	1281.1
35°	1240.9	1228.4	1232.4	1218.2	1216.8
37.5°	1172.1	1159.3	1163.8	1151.6	1151.1
40°	1123.3	1115.0	1116.2	1106.3	1103.5
42.5°	1078.0	1068.6	1069.8	1059.8	1059.3
45°	1008.6	1001.7	1001.5	991.6	991.6
47.5°	934.9	929.7	928.1	919.9	919.6
50°	883.9	879.8	878.3	871.1	869.8
52.5°	830.7	828.7	823.9	817.9	817.6
55°	747.9	745.2	738.0	733.7	732.4
57.5°	658.1	652.6	644.5	638.3	639.4
60°	593.5	588.0	576.5	573.7	573.7
62.5°	531.2	524.6	513.1	509.2	511.4
65°	442.0	433.7	423.5	420.7	422.1
67.5°	360.9	353.5	342.5	342.5	341.4
70°	308.8	304.7	296.1	296.1	296.1
72.5°	262.3	260.4	254.1	254.1	253.0
75°	201.1	201.1	198.3	196.9	195.5
77.5°	150.7	151.3	149.9	148.4	145.9
80°	119.0	121.8	120.4	119.0	117.6
82.5°	89.5	92.3	92.1	89.5	89.2
85°	46.7	50.9	51.0	51.0	51.0
87.5°	12.5	16.9	18.1	18.2	19.3
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)