

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: P523650

Luminaire Tested: **SQ4-PP3-025U-100D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523650
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-PP3-025U-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 250 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: 6163.0 lumens
Efficiency: N/A
Efficacy: 109.5 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

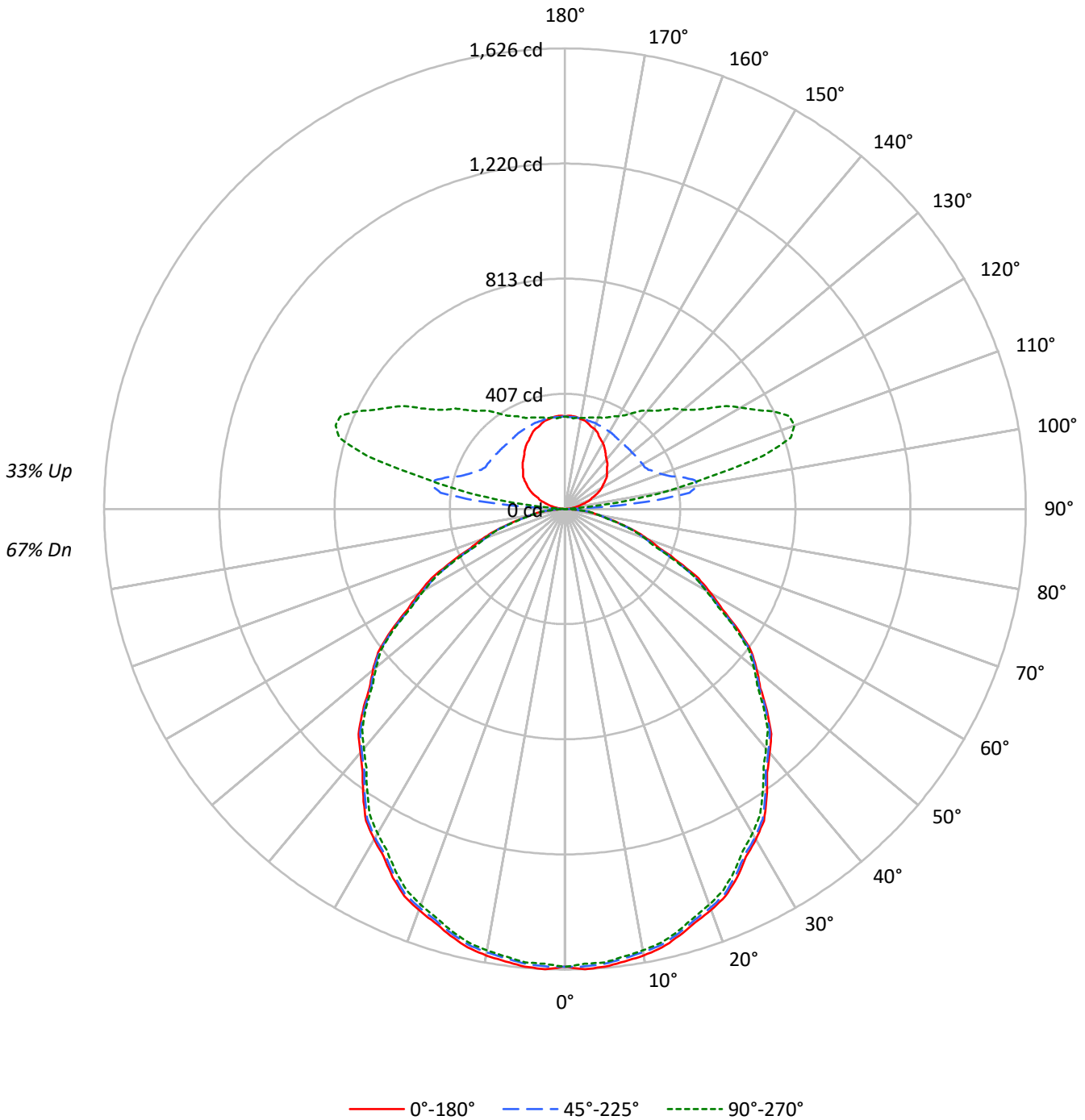
Input Watts (W): 56.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	102	98	94	90	96	92	89	86	82	79	77	73	71	69	64	63	61	57
2	93	86	79	74	87	81	75	71	72	68	64	64	61	58	57	54	52	48
3	85	75	68	62	80	71	65	59	64	59	54	57	53	49	50	47	44	41
4	78	67	59	53	73	63	56	51	57	51	46	51	46	42	45	41	38	35
5	72	60	51	45	67	57	49	44	51	45	40	46	41	37	41	37	34	31
6	66	54	45	40	62	51	44	38	46	40	35	41	36	32	37	33	30	27
7	61	49	40	35	58	46	39	34	42	36	31	38	33	29	34	30	26	24
8	57	44	36	31	54	42	35	30	38	32	28	35	29	26	31	27	24	21
9	53	40	33	28	50	39	32	27	35	29	25	32	27	23	29	24	21	19
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	27	22	19	18

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	2.5
10°-20°	436.4	7.1
20°-30°	653.7	10.6
30°-40°	766.7	12.4
40°-50°	769.1	12.5
50°-60°	656.1	10.6
60°-70°	427.9	6.9
70°-80°	214.7	3.5
80°-90°	59.4	1.0
90°-100°	148.6	2.4
100°-110°	422.9	6.9
110°-120°	405.2	6.6
120°-130°	320.7	5.2
130°-140°	257.4	4.2
140°-150°	201.5	3.3
150°-160°	147.4	2.4
160°-170°	91.3	1.5
170°-180°	31.0	0.5
0°-30°	1242.9	20.2
0°-40°	2009.6	32.6
0°-60°	3434.8	55.7
0°-90°	4136.8	67.1
90°-120°	976.8	15.8
90°-150°	1756.4	28.5
90°-180°	2026.0	32.9
0°-180°	6163.0	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°	16	64	288	100	61	18
105°	66	100	431	761	724	70
115°	122	148	327	692	813	120
125°	172	191	312	518	619	154
135°	211	228	308	437	494	163
145°	249	261	311	378	412	155
155°	284	291	318	342	356	131
165°	314	315	322	329	334	88
175°	329	327	326	324	321	31
180°	326	326	326	326	326	

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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°	5.0	26.3	61.0	17.8	13.4
95°	16.1	64.0	287.7	99.6	61.4
97.5°	29.6	75.0	443.1	317.1	217.3
100°	39.1	81.5	476.9	483.0	372.1
102.5°	49.5	88.5	469.4	618.3	521.4
105°	65.7	99.7	431.0	761.3	723.7
107.5°	82.2	112.7	386.1	801.6	835.1
110°	93.6	122.1	360.3	786.2	861.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	104.6	131.6	342.9	749.7	856.9
115°	122.2	147.6	326.8	692.3	813.0
117.5°	137.7	161.6	317.3	629.6	757.4
120°	150.1	170.1	316.3	593.8	716.2
122.5°	160.0	180.0	313.8	562.3	676.1
125°	172.4	191.2	311.9	517.6	618.9
127.5°	185.9	203.5	310.9	490.9	574.4
130°	192.9	210.4	309.4	472.3	545.1
132.5°	200.3	217.4	309.4	457.8	524.7
135°	210.8	228.4	308.2	437.2	494.2
137.5°	220.8	237.9	308.1	419.8	469.1
140°	228.2	245.8	307.6	405.4	452.7
142.5°	236.6	251.3	309.1	393.9	436.3
145°	248.7	261.4	310.7	378.4	412.4
147.5°	259.0	271.3	313.4	362.8	392.2
150°	267.9	276.4	314.4	357.7	378.3
152.5°	274.8	283.8	315.4	350.7	369.8
155°	284.0	290.7	318.1	342.0	355.9
157.5°	295.4	299.4	318.7	338.1	348.0
160°	301.4	304.4	321.2	335.1	343.5
162.5°	304.9	308.4	321.7	332.5	339.1
165°	313.8	315.0	321.8	328.8	333.6
167.5°	319.9	318.8	324.7	327.8	329.8
170°	321.8	321.2	323.7	324.4	326.8
172.5°	326.3	324.2	325.2	323.4	325.3
175°	328.7	326.8	325.6	323.6	321.2
177.5°	329.7	326.7	325.2	323.2	323.7
180°	326.2	326.2	326.2	326.2	326.2

(END OF REPORT)