

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: P562222

Luminaire Tested: **SQ4-PW1-050U-100D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562222
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-050U-100D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1000 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

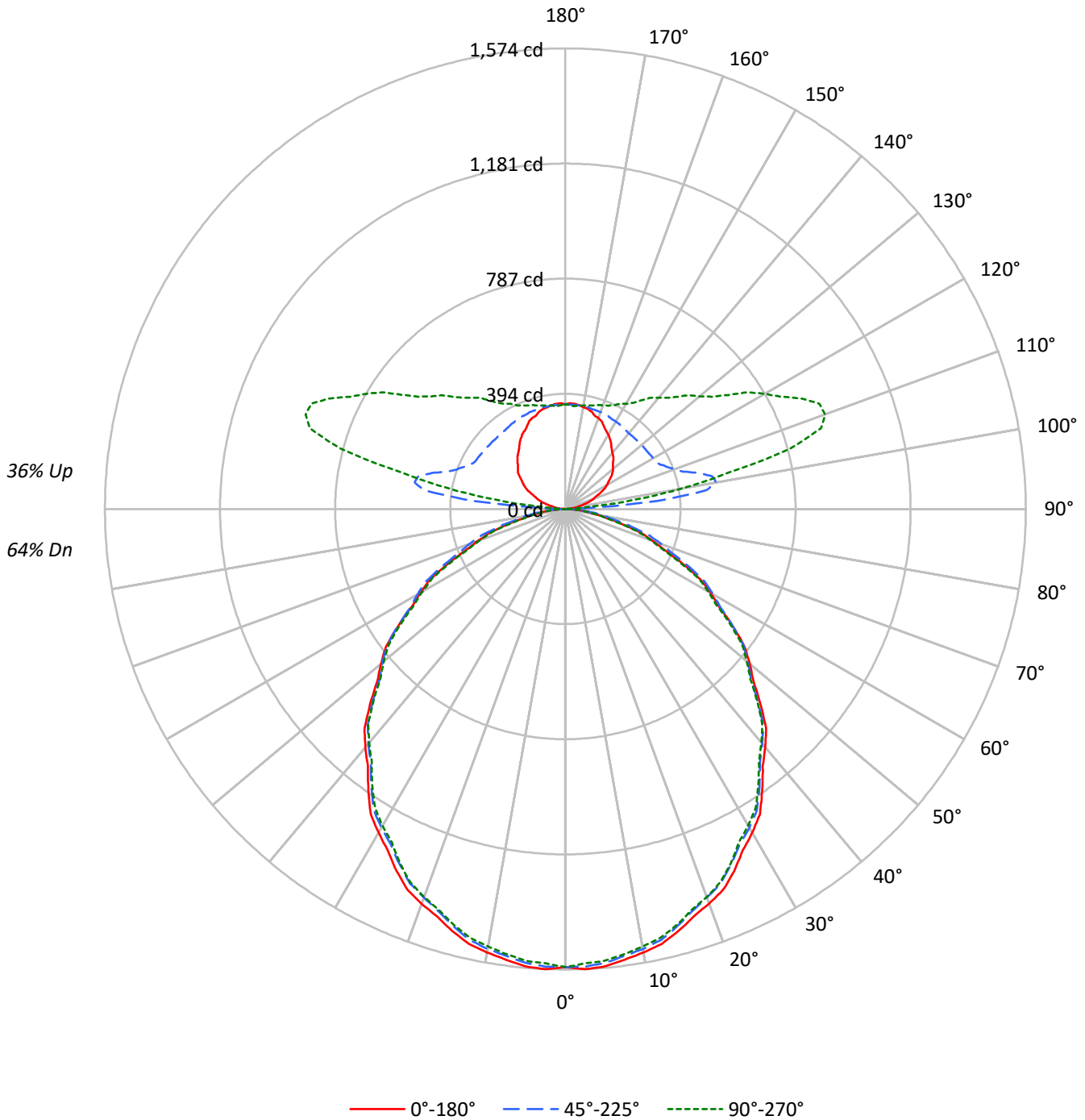
Lumens per Lamp: N/A
Luminaire Lumens: 6205.3 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 58.2
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	89	95	91	88	85	80	78	75	70	69	67	61	60	59	54
2	92	85	78	73	86	80	74	70	71	66	63	62	59	56	54	52	50	46
3	84	74	67	61	79	70	64	58	62	57	53	55	51	47	48	45	42	39
4	77	66	58	52	72	62	55	50	55	50	45	49	44	41	43	39	37	33
5	71	59	51	45	66	56	48	43	50	44	39	44	39	35	39	35	32	29
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	25
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	23
8	56	44	36	30	53	41	34	29	37	31	27	33	28	25	30	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18
10	49	37	29	24	46	35	28	24	32	26	22	28	24	20	25	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14442	14442	14442
5°	14536	14420	14356
10°	14419	14303	14225
15°	14266	14108	14055
20°	14096	13879	13853
25°	13899	13646	13605
30°	13606	13400	13312
35°	13218	13033	12955
40°	12806	12608	12557
45°	12308	12146	12093
50°	11799	11699	11621
55°	11247	11247	11070
60°	10560	10765	10383
65°	9665	10147	9424
70°	8519	9339	8295
75°	7276	8359	7080
80°	5643	7035	5717
85°	3652	5399	4817



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	2.4
10°-20°	416.1	6.7
20°-30°	617.3	9.9
30°-40°	722.3	11.6
40°-50°	719.1	11.6
50°-60°	620.9	10.0
60°-70°	447.0	7.2
70°-80°	234.4	3.8
80°-90°	58.1	0.9
90°-100°	163.0	2.6
100°-110°	463.9	7.5
110°-120°	444.5	7.2
120°-130°	351.8	5.7
130°-140°	282.4	4.6
140°-150°	221.1	3.6
150°-160°	161.8	2.6
160°-170°	100.2	1.6
170°-180°	34.0	0.5
0°-30°	1180.8	19.0
0°-40°	1903.1	30.7
0°-60°	3243.1	52.3
0°-90°	3982.6	64.2
90°-120°	1071.5	17.3
90°-150°	1926.7	31.0
90°-180°	2223.0	35.8
0°-180°	6205.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1565	1565	1565	1565	1565	
5°	1570	1552	1557	1553	1550	149
15°	1494	1475	1477	1474	1472	421
25°	1365	1342	1340	1332	1336	628
35°	1174	1158	1157	1146	1150	734
45°	943	935	931	928	927	728
55°	699	698	699	690	688	624
65°	443	456	465	446	432	439
75°	204	223	234	219	199	219
85°	34	45	51	48	46	45
90°	0	0	0	0	0	2
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°	1565.3	1565.3	1565.3	1565.3	1565.3
2.5°	1574.1	1561.2	1565.3	1561.8	1554.3
5°	1569.5	1551.9	1557.0	1552.8	1550.1
7.5°	1553.5	1537.3	1541.0	1536.6	1535.0
10°	1539.1	1522.9	1526.7	1521.1	1518.4
12.5°	1522.6	1505.3	1509.0	1503.5	1501.9
15°	1493.6	1474.7	1477.0	1474.2	1471.5
17.5°	1459.9	1440.8	1441.2	1436.8	1436.2
20°	1435.7	1415.4	1413.6	1408.2	1410.9
22.5°	1409.2	1387.9	1386.0	1378.4	1382.2
25°	1365.3	1342.4	1340.5	1332.3	1336.4
27.5°	1314.6	1291.9	1292.0	1280.5	1284.8
30°	1277.1	1255.5	1257.8	1244.1	1249.5
32.5°	1237.4	1217.9	1219.2	1205.5	1210.9
35°	1173.6	1157.5	1157.1	1146.2	1150.2
37.5°	1108.5	1094.3	1092.0	1085.7	1086.8
40°	1063.3	1051.2	1046.8	1042.6	1042.6
42.5°	1015.9	1004.8	1000.4	997.4	996.3
45°	943.3	935.2	930.9	928.1	926.8
47.5°	871.6	864.1	860.3	858.3	857.0
50°	822.0	816.6	815.1	810.9	809.6
52.5°	772.3	769.1	767.6	762.4	761.0
55°	699.2	697.9	699.2	689.5	688.2
57.5°	623.1	625.2	629.7	616.7	613.4
60°	572.3	577.7	583.4	568.1	562.7
62.5°	520.5	529.1	537.0	519.5	511.9
65°	442.7	456.2	464.8	446.5	431.7
67.5°	367.7	384.4	394.7	375.0	358.3
70°	315.8	334.7	346.2	326.4	307.5
72.5°	270.6	291.6	300.9	282.3	263.4
75°	204.1	223.0	234.5	218.8	198.6
77.5°	144.8	162.6	172.1	158.5	141.8
80°	106.2	125.1	132.4	121.1	107.6
82.5°	75.3	90.9	96.0	89.2	80.0
85°	34.5	45.3	51.0	48.2	45.5
87.5°	8.8	16.4	21.0	21.0	22.1
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°	114.7	144.4	376.2	822.4	940.0
115°	134.0	161.9	358.5	759.5	891.8
117.5°	151.0	177.2	348.0	690.7	830.9
120°	164.6	186.6	346.9	651.3	785.7
122.5°	175.5	197.5	344.2	616.8	741.6
125°	189.1	209.7	342.2	567.8	678.9
127.5°	203.9	223.2	341.1	538.5	630.1
130°	211.6	230.9	339.5	518.1	598.0
132.5°	219.7	238.5	339.5	502.2	575.6
135°	231.3	250.6	338.1	479.6	542.2
137.5°	242.2	260.9	338.0	460.5	514.6
140°	250.3	269.6	337.4	444.7	496.6
142.5°	259.6	275.7	339.0	432.1	478.6
145°	272.8	286.8	340.8	415.1	452.4
147.5°	284.1	297.6	343.8	398.0	430.2
150°	293.9	303.2	344.9	392.3	415.0
152.5°	301.5	311.3	346.0	384.7	405.7
155°	311.6	318.9	349.0	375.2	390.5
157.5°	324.1	328.5	349.7	370.9	381.8
160°	330.6	333.9	352.4	367.6	376.9
162.5°	334.4	338.3	352.9	364.8	372.0
165°	344.2	345.5	353.1	360.7	366.0
167.5°	350.9	349.7	356.2	359.6	361.8
170°	353.1	352.4	355.1	355.8	358.5
172.5°	358.0	355.7	356.7	354.7	356.9
175°	360.5	358.5	357.1	355.0	352.4
177.5°	361.6	358.4	356.7	354.6	355.1
180°	357.8	357.8	357.8	357.8	357.8

(END OF REPORT)