

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: P523697

Luminaire Tested: **SQ4-PP3-050U-100D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523697  
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 (2700K)  
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 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5871.4 lumens  
Efficiency: N/A  
Efficacy: 101.1 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

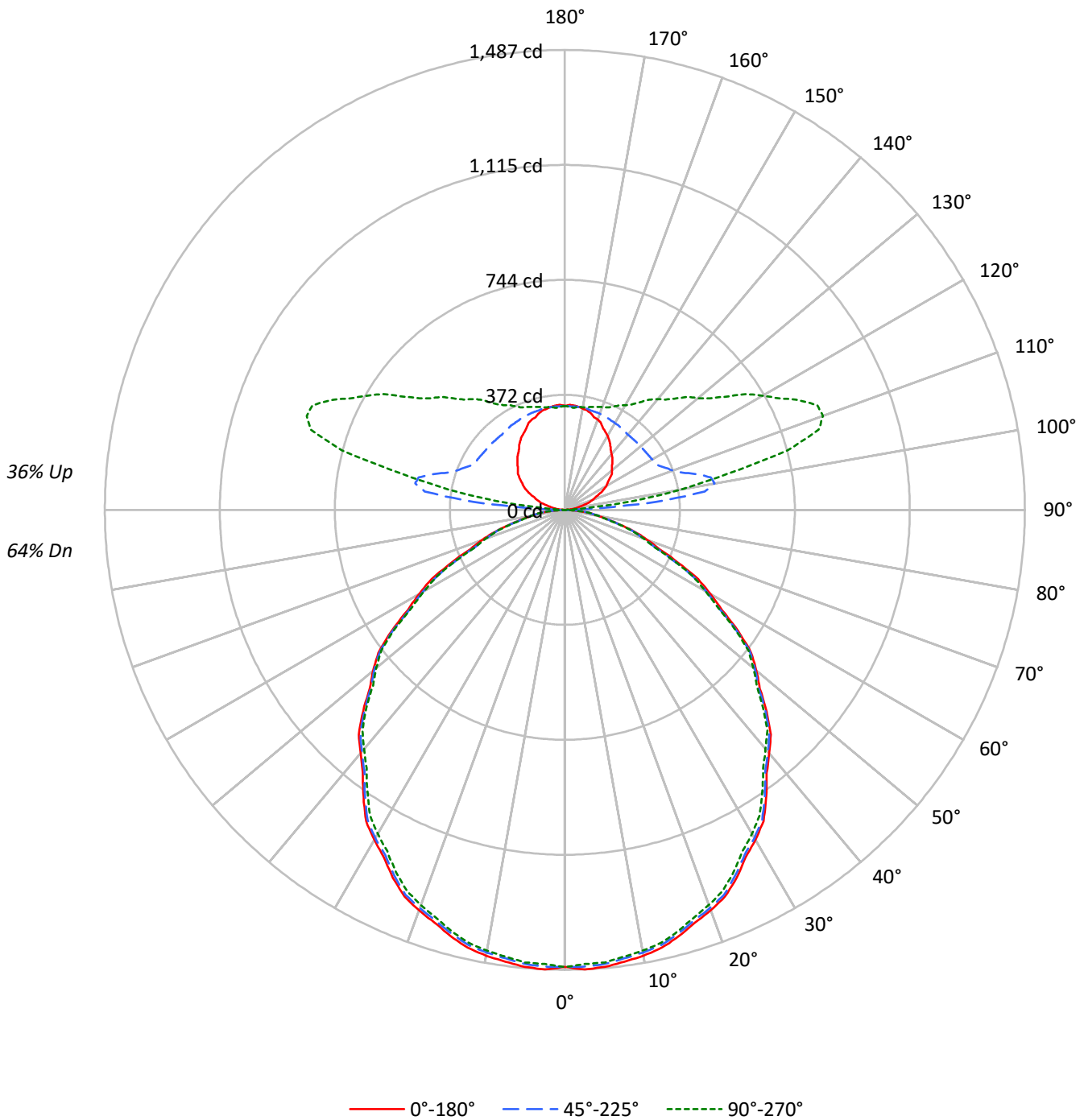
Input Watts (W): 58.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20					
RC	80				70				50				30					
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	13637	13637	13637
5°	13738	13653	13605
10°	13715	13617	13556
15°	13624	13549	13475
20°	13534	13457	13355
25°	13372	13280	13148
30°	13125	13056	12891
35°	12781	12694	12534
40°	12373	12294	12155
45°	12035	11950	11832
50°	11603	11529	11417
55°	11002	10856	10772
60°	10016	9728	9682
65°	8824	8455	8427
70°	7618	7302	7302
75°	6559	6466	6374
80°	5781	5850	5712
85°	4520	4933	4933



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.8	2.4
10°-20°	399.1	6.8
20°-30°	597.8	10.2
30°-40°	701.2	11.9
40°-50°	703.4	12.0
50°-60°	600.0	10.2
60°-70°	391.3	6.7
70°-80°	196.3	3.3
80°-90°	54.3	0.9
90°-100°	153.2	2.6
100°-110°	435.9	7.4
110°-120°	417.6	7.1
120°-130°	330.5	5.6
130°-140°	265.3	4.5
140°-150°	207.7	3.5
150°-160°	152.0	2.6
160°-170°	94.1	1.6
170°-180°	31.9	0.5
0°-30°	1136.6	19.4
0°-40°	1837.8	31.3
0°-60°	3141.2	53.5
0°-90°	3783.1	64.4
90°-120°	1006.7	17.1
90°-150°	1810.2	30.8
90°-180°	2088.0	35.6
0°-180°	5871.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1478	1478	1478	1478	1478	
5°	1483	1469	1474	1469	1469	141
15°	1426	1412	1418	1413	1411	402
25°	1314	1298	1304	1293	1292	604
35°	1135	1123	1127	1114	1113	709
45°	922	916	916	907	907	710
55°	684	682	675	671	670	608
65°	404	397	387	385	386	403
75°	184	184	181	180	179	200
85°	43	46	47	47	47	50
90°	0	0	0	0	0	2
95°	17	66	297	103	63	19
105°	68	103	444	785	746	72
115°	126	152	337	714	838	124
125°	178	197	322	534	638	159
135°	217	235	318	451	509	168
145°	256	269	320	390	425	160
155°	293	300	328	352	367	135
165°	323	325	332	339	344	91
175°	339	337	336	334	331	32
180°	336	336	336	336	336	

TEST NUMBER: P523697

CATALOG NUMBER: SQ4-PP3-050U-100D-92765-1D-UNV-STD-W-4 (2700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1478.1	1478.1	1478.1	1478.1	1478.1
2.5°	1487.4	1475.3	1478.1	1475.9	1469.8
5°	1483.3	1469.4	1474.2	1469.0	1469.0
7.5°	1473.2	1458.0	1462.8	1457.6	1457.4
10°	1463.9	1448.7	1453.5	1448.3	1447.0
12.5°	1450.4	1435.2	1441.1	1434.8	1434.6
15°	1426.3	1412.4	1418.5	1413.3	1410.7
17.5°	1399.1	1383.9	1391.3	1384.0	1383.0
20°	1378.4	1363.2	1370.6	1360.2	1360.2
22.5°	1353.5	1338.3	1346.8	1333.3	1333.3
25°	1313.6	1298.4	1304.5	1292.8	1291.6
27.5°	1266.2	1251.2	1257.6	1244.4	1244.2
30°	1232.0	1218.0	1225.5	1211.2	1210.0
32.5°	1194.7	1181.7	1187.2	1172.9	1171.6
35°	1134.8	1123.4	1127.0	1114.1	1112.8
37.5°	1071.9	1060.2	1064.3	1053.2	1052.7
40°	1027.3	1019.7	1020.8	1011.7	1009.2
42.5°	985.8	977.2	978.3	969.2	968.7
45°	922.4	916.0	915.9	906.8	906.8
47.5°	855.0	850.2	848.8	841.3	841.0
50°	808.4	804.6	803.2	796.7	795.4
52.5°	759.7	757.9	753.4	748.0	747.7
55°	684.0	681.5	674.9	671.0	669.7
57.5°	601.9	596.8	589.4	583.8	584.8
60°	542.8	537.7	527.2	524.7	524.7
62.5°	485.8	479.7	469.2	465.6	467.7
65°	404.2	396.6	387.3	384.8	386.0
67.5°	330.1	323.2	313.2	313.2	312.2
70°	282.4	278.6	270.7	270.7	270.7
72.5°	239.9	238.1	232.4	232.4	231.4
75°	184.0	184.0	181.4	180.0	178.8
77.5°	137.8	138.3	137.1	135.7	133.4
80°	108.8	111.4	110.1	108.8	107.5
82.5°	81.9	84.4	84.2	81.9	81.6
85°	42.7	46.5	46.6	46.6	46.6
87.5°	11.4	15.5	16.6	16.6	17.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.1	27.1	62.9	18.3	13.8
95°	16.6	66.0	296.6	102.6	63.3
97.5°	30.6	77.3	456.7	326.8	224.0
100°	40.3	84.0	491.5	497.8	383.5
102.5°	51.0	91.2	483.8	637.3	537.4
105°	67.7	102.7	444.2	784.6	745.9
107.5°	84.8	116.1	397.9	826.2	860.7
110°	96.5	125.9	371.3	810.3	887.8

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CATALOG NUMBER: SQ4-PP3-050U-100D-92765-1D-UNV-STD-W-4 (2700K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	107.8	135.6	353.4	772.7	883.2
115°	125.9	152.2	336.8	713.6	837.9
117.5°	141.9	166.5	327.0	648.9	780.6
120°	154.7	175.3	326.0	612.0	738.2
122.5°	164.9	185.5	323.4	579.6	696.8
125°	177.7	197.1	321.5	533.5	637.9
127.5°	191.6	209.7	320.5	506.0	592.0
130°	198.8	216.9	318.9	486.8	561.8
132.5°	206.4	224.1	318.9	471.8	540.8
135°	217.3	235.4	317.7	450.7	509.4
137.5°	227.5	245.2	317.5	432.7	483.4
140°	235.2	253.3	317.0	417.8	466.6
142.5°	243.9	259.0	318.5	406.0	449.7
145°	256.3	269.4	320.2	390.0	425.0
147.5°	266.9	279.7	323.0	373.9	404.2
150°	276.1	284.9	324.0	368.6	389.9
152.5°	283.3	292.5	325.1	361.4	381.2
155°	292.7	299.6	327.9	352.5	366.9
157.5°	304.5	308.6	328.5	348.4	358.7
160°	310.6	313.7	331.1	345.3	354.1
162.5°	314.2	317.8	331.6	342.7	349.5
165°	323.4	324.7	331.7	338.9	343.9
167.5°	329.7	328.5	334.7	337.9	339.9
170°	331.7	331.1	333.6	334.3	336.8
172.5°	336.3	334.2	335.2	333.3	335.3
175°	338.7	336.9	335.5	333.6	331.1
177.5°	339.8	336.8	335.2	333.1	333.6
180°	336.2	336.2	336.2	336.2	336.2

(END OF REPORT)