

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: P561855

Luminaire Tested: **SQ4-PR1-050U-100D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561855  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-050U-100D-92765-1D-UNV-STD-W-4 (2700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE 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**

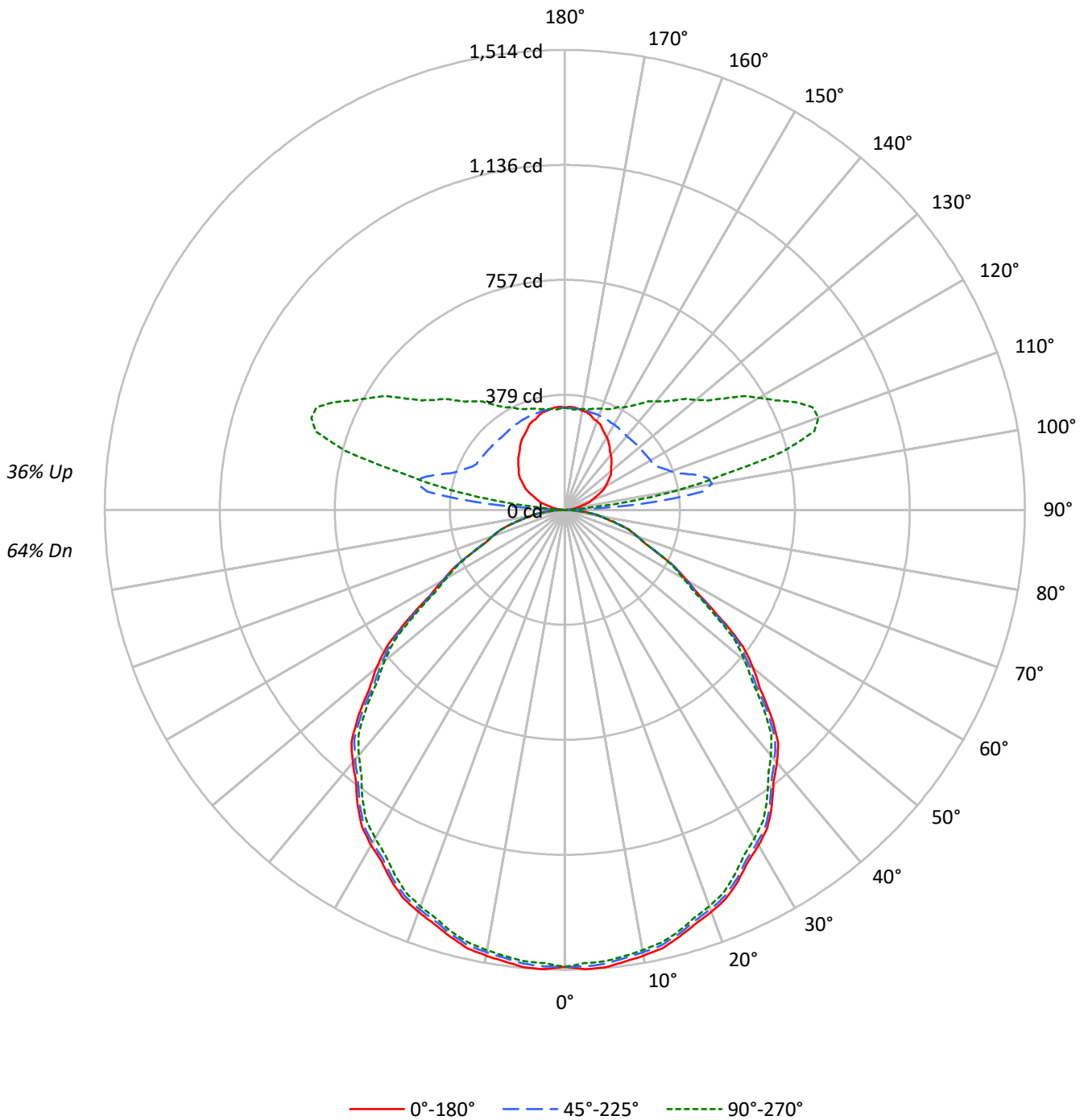
Lumens per Lamp: N/A  
Luminaire Lumens: 5849.1 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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	93	85	79	74	87	80	75	70	71	67	63	63	60	57	55	53	50	47
3	85	75	68	62	79	71	65	59	63	58	54	56	52	48	49	46	43	40
4	78	67	59	53	73	63	56	51	56	51	46	50	45	42	44	40	38	34
5	72	60	52	46	67	57	49	44	51	45	40	45	40	36	40	36	33	30
6	66	54	46	40	62	51	44	38	46	40	35	41	36	32	36	32	29	27
7	61	49	41	35	57	46	39	34	42	36	31	37	32	29	33	29	26	24
8	57	44	37	31	53	42	35	30	38	32	28	34	29	26	30	26	23	21
9	53	41	33	28	50	39	32	27	35	29	25	31	27	23	28	24	21	19
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	26	22	19	17

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	13880	13880	13880
5°	14004	13897	13825
10°	13960	13864	13790
15°	13899	13813	13738
20°	13829	13740	13639
25°	13732	13639	13481
30°	13583	13487	13293
35°	13383	13266	13076
40°	13077	12938	12703
45°	12545	12325	12072
50°	11606	11326	11104
55°	10129	9901	9691
60°	8536	8464	8296
65°	7383	7412	7355
70°	6782	6817	6817
75°	6513	6513	6559
80°	6126	6195	6126
85°	4933	5483	5483



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.3	2.4
10°-20°	407.0	7.0
20°-30°	613.9	10.5
30°-40°	731.5	12.5
40°-50°	721.2	12.3
50°-60°	551.2	9.4
60°-70°	341.1	5.8
70°-80°	193.7	3.3
80°-90°	58.9	1.0
90°-100°	153.2	2.6
100°-110°	435.9	7.5
110°-120°	417.6	7.1
120°-130°	330.5	5.7
130°-140°	265.3	4.5
140°-150°	207.7	3.6
150°-160°	152.0	2.6
160°-170°	94.1	1.6
170°-180°	31.9	0.5
0°-30°	1163.2	19.9
0°-40°	1894.7	32.4
0°-60°	3167.0	54.1
0°-90°	3760.8	64.3
90°-120°	1006.7	17.2
90°-150°	1810.2	30.9
90°-180°	2088.0	35.7
0°-180°	5849.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1504	1504	1504	1504	1504	
5°	1512	1496	1500	1495	1493	143
15°	1455	1440	1446	1441	1438	411
25°	1349	1332	1340	1326	1324	621
35°	1188	1174	1178	1162	1161	742
45°	962	949	945	928	925	737
55°	630	620	616	605	602	564
65°	338	336	340	337	337	343
75°	183	183	183	184	184	193
85°	47	49	52	52	52	54
90°	0	0	0	0	0	3
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	

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CATALOG NUMBER: SQ4-PR1-050U-100D-92765-1D-UNV-STD-W-4 (2700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1504.4	1504.4	1504.4	1504.4	1504.4
2.5°	1513.7	1500.5	1504.4	1501.1	1494.0
5°	1512.1	1495.7	1500.5	1495.2	1492.7
7.5°	1500.5	1484.3	1489.1	1483.9	1482.3
10°	1490.1	1474.9	1479.8	1474.5	1472.0
12.5°	1478.7	1462.5	1468.4	1462.1	1459.5
15°	1455.1	1439.9	1446.1	1440.8	1438.3
17.5°	1429.2	1413.0	1419.1	1413.1	1409.8
20°	1408.5	1393.3	1399.4	1390.3	1389.1
22.5°	1385.7	1370.5	1376.6	1364.4	1364.2
25°	1348.9	1332.4	1339.8	1325.5	1324.3
27.5°	1305.1	1289.9	1296.0	1281.5	1279.9
30°	1275.0	1259.8	1266.0	1250.3	1247.8
32.5°	1240.8	1226.6	1231.7	1216.2	1214.6
35°	1188.2	1174.3	1177.8	1162.3	1161.0
37.5°	1128.3	1115.7	1117.7	1100.6	1099.3
40°	1085.8	1073.2	1074.2	1056.0	1054.7
42.5°	1039.2	1026.5	1025.5	1007.3	1006.0
45°	961.5	948.8	944.6	927.7	925.2
47.5°	872.8	860.2	852.3	838.6	836.8
50°	808.6	795.9	789.1	777.4	773.6
52.5°	739.1	726.4	720.7	710.0	706.2
55°	629.7	619.6	615.5	605.1	602.5
57.5°	525.8	519.0	517.8	507.7	506.6
60°	462.6	458.8	458.7	449.6	449.6
62.5°	408.7	405.9	407.9	401.9	400.9
65°	338.2	335.7	339.5	336.9	336.9
67.5°	282.5	282.5	284.8	283.8	283.8
70°	251.4	251.4	252.7	252.7	252.7
72.5°	223.4	222.4	225.7	225.7	224.7
75°	182.7	182.7	182.7	184.0	184.0
77.5°	142.3	142.5	143.6	143.3	142.3
80°	115.3	116.6	116.6	115.3	115.3
82.5°	88.4	89.6	89.7	89.4	88.4
85°	46.6	49.2	51.8	51.8	51.8
87.5°	13.5	17.5	20.7	20.7	19.7
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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**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)