

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: P562225

Luminaire Tested: **SQ4-PW1-050U-100D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562225  
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 (5700K)  
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 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

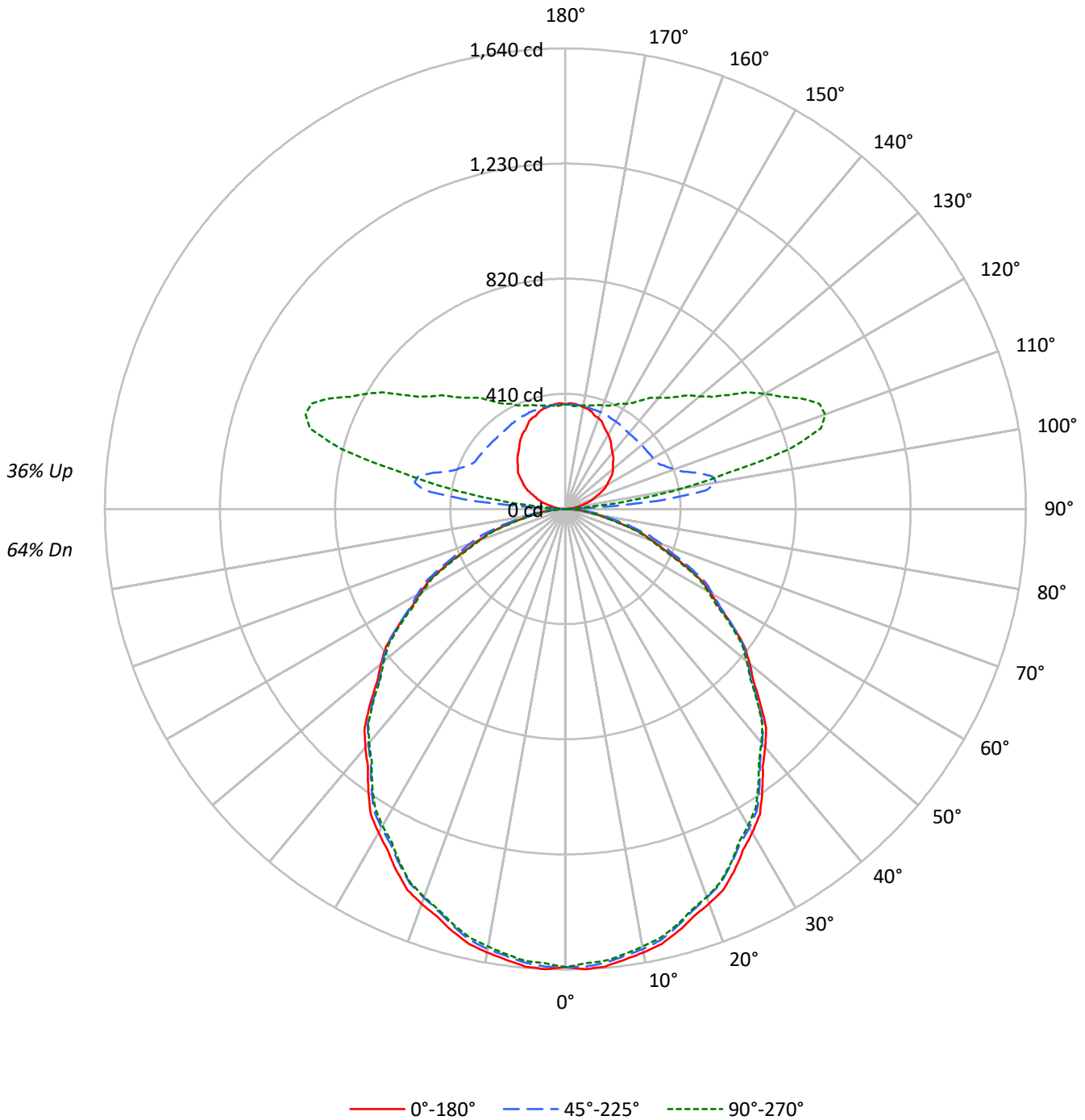
Lumens per Lamp: N/A  
Luminaire Lumens: 6465.9 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 58.1  
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	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°	15049	15049	15049
5°	15146	15026	14960
10°	15025	14903	14823
15°	14865	14701	14646
20°	14688	14462	14434
25°	14483	14219	14176
30°	14177	13962	13871
35°	13774	13580	13499
40°	13345	13136	13085
45°	12826	12656	12600
50°	12294	12190	12109
55°	11720	11720	11535
60°	11005	11217	10819
65°	10071	10573	9820
70°	8878	9730	8646
75°	7582	8709	7375
80°	5882	7332	5956
85°	3800	5632	5018



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.6	2.4
10°-20°	433.6	6.7
20°-30°	643.2	9.9
30°-40°	752.6	11.6
40°-50°	749.3	11.6
50°-60°	647.0	10.0
60°-70°	465.7	7.2
70°-80°	244.2	3.8
80°-90°	60.6	0.9
90°-100°	169.9	2.6
100°-110°	483.4	7.5
110°-120°	463.2	7.2
120°-130°	366.6	5.7
130°-140°	294.2	4.6
140°-150°	230.4	3.6
150°-160°	168.5	2.6
160°-170°	104.4	1.6
170°-180°	35.4	0.5
0°-30°	1230.4	19.0
0°-40°	1983.1	30.7
0°-60°	3379.3	52.3
0°-90°	4149.9	64.2
90°-120°	1116.5	17.3
90°-150°	2007.7	31.0
90°-180°	2316.0	35.8
0°-180°	6465.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1631	1631	1631	1631	1631	
5°	1635	1617	1622	1618	1615	155
15°	1556	1537	1539	1536	1533	439
25°	1423	1399	1397	1388	1392	654
35°	1223	1206	1206	1194	1198	764
45°	983	974	970	967	966	758
55°	729	727	729	718	717	650
65°	461	475	484	465	450	457
75°	213	232	244	228	207	228
85°	36	47	53	50	47	47
90°	0	0	0	0	0	2
95°	18	73	329	114	70	21
105°	75	114	493	870	827	79
115°	140	169	374	791	929	137
125°	197	218	356	592	707	176
135°	241	261	352	500	565	186
145°	284	299	355	433	471	178
155°	325	332	364	391	407	150
165°	359	360	368	376	381	101
175°	376	374	372	370	367	36
180°	373	373	373	373	373	

TEST NUMBER: P562225

CATALOG NUMBER: SQ4-PW1-050U-100D-92765-1D-UNV-STD-W-4 (5700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1631.1	1631.1	1631.1	1631.1	1631.1
2.5°	1640.3	1626.8	1631.1	1627.4	1619.6
5°	1635.4	1617.1	1622.4	1618.1	1615.3
7.5°	1618.7	1601.8	1605.8	1601.1	1599.5
10°	1603.8	1586.9	1590.8	1585.0	1582.2
12.5°	1586.5	1568.5	1572.4	1566.7	1565.0
15°	1556.3	1536.7	1539.1	1536.2	1533.3
17.5°	1521.3	1501.3	1501.7	1497.1	1496.6
20°	1496.0	1474.9	1473.0	1467.3	1470.1
22.5°	1468.4	1446.2	1444.3	1436.3	1440.2
25°	1422.7	1398.8	1396.8	1388.3	1392.5
27.5°	1369.8	1346.2	1346.2	1334.3	1338.8
30°	1330.7	1308.2	1310.6	1296.4	1302.0
32.5°	1289.3	1269.1	1270.4	1256.1	1261.7
35°	1222.9	1206.1	1205.7	1194.3	1198.5
37.5°	1155.1	1140.2	1137.9	1131.3	1132.4
40°	1108.0	1095.3	1090.7	1086.4	1086.4
42.5°	1058.5	1047.0	1042.4	1039.3	1038.1
45°	983.0	974.5	970.0	967.1	965.7
47.5°	908.2	900.4	896.4	894.4	893.0
50°	856.5	850.9	849.3	845.0	843.6
52.5°	804.8	801.4	799.9	794.4	793.0
55°	728.6	727.2	728.6	718.5	717.1
57.5°	649.3	651.5	656.2	642.6	639.2
60°	596.4	602.0	607.9	591.9	586.3
62.5°	542.3	551.3	559.6	541.3	533.4
65°	461.3	475.3	484.3	465.3	449.8
67.5°	383.1	400.5	411.3	390.8	373.3
70°	329.1	348.8	360.7	340.1	320.5
72.5°	282.0	303.9	313.6	294.2	274.5
75°	212.7	232.4	244.3	228.0	206.9
77.5°	150.9	169.4	179.3	165.2	147.7
80°	110.7	130.3	138.0	126.1	112.1
82.5°	78.5	94.8	100.0	92.9	83.3
85°	35.9	47.2	53.2	50.2	47.4
87.5°	9.2	17.1	21.8	21.9	23.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.7	30.1	69.8	20.3	15.3
95°	18.4	73.2	328.9	113.8	70.2
97.5°	33.9	85.7	506.5	362.5	248.4
100°	44.7	93.2	545.1	552.1	425.3
102.5°	56.6	101.2	536.6	706.7	596.0
105°	75.1	114.0	492.6	870.2	827.2
107.5°	94.0	128.8	441.3	916.3	954.5
110°	107.0	139.6	411.8	898.6	984.6

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	119.5	150.4	392.0	856.9	979.5
115°	139.6	168.8	373.6	791.4	929.3
117.5°	157.4	184.7	362.6	719.7	865.8
120°	171.5	194.4	361.5	678.7	818.7
122.5°	182.9	205.8	358.7	642.8	772.8
125°	197.1	218.5	356.5	591.7	707.4
127.5°	212.5	232.6	355.4	561.2	656.5
130°	220.4	240.5	353.7	539.9	623.1
132.5°	229.0	248.5	353.7	523.3	599.8
135°	241.0	261.1	352.3	499.8	564.9
137.5°	252.3	271.9	352.2	479.9	536.2
140°	260.9	281.0	351.6	463.4	517.5
142.5°	270.5	287.3	353.3	450.2	498.7
145°	284.2	298.8	355.1	432.6	471.4
147.5°	296.0	310.2	358.2	414.7	448.3
150°	306.2	315.9	359.4	408.8	432.4
152.5°	314.2	324.4	360.5	400.9	422.8
155°	324.6	332.3	363.6	390.9	406.9
157.5°	337.7	342.3	364.3	386.4	397.8
160°	344.5	348.0	367.2	383.0	392.7
162.5°	348.5	352.5	367.7	380.1	387.6
165°	358.7	360.1	367.9	375.8	381.4
167.5°	365.6	364.4	371.1	374.7	377.0
170°	367.9	367.2	370.0	370.8	373.6
172.5°	373.0	370.6	371.7	369.6	371.9
175°	375.7	373.6	372.1	370.0	367.2
177.5°	376.8	373.5	371.7	369.5	370.0
180°	372.9	372.9	372.9	372.9	372.9

(END OF REPORT)