

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: P562173

Luminaire Tested: **SQ4-PW1-025U-100D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562173  
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-PW1-025U-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 250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

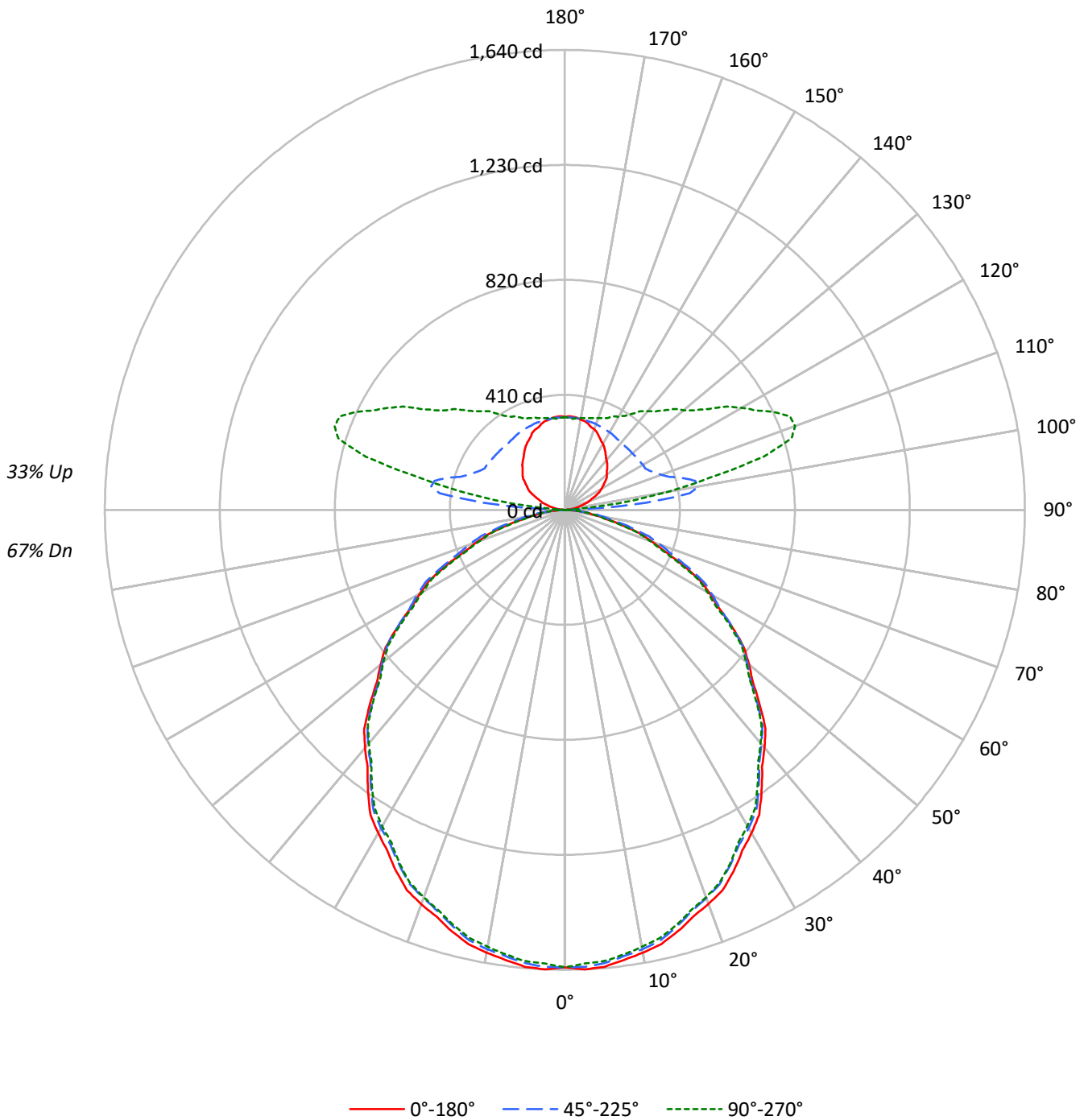
Lumens per Lamp: N/A  
Luminaire Lumens: 6204.9 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 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	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	97	93	90	96	92	88	85	82	79	77	72	70	69	64	62	61	57				
2	93	85	79	74	87	80	75	70	72	67	64	64	60	57	56	54	51	48				
3	85	75	67	61	79	71	64	59	63	58	54	56	52	49	50	47	44	40				
4	78	66	58	52	73	63	56	50	56	51	46	50	46	42	45	41	38	35				
5	71	59	51	45	67	56	49	43	51	44	40	45	40	36	40	36	33	30				
6	66	53	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	27				
7	61	48	40	34	57	46	38	33	41	35	31	37	32	28	33	29	26	24				
8	57	44	36	31	53	42	35	29	38	32	27	34	29	25	31	26	23	21				
9	53	40	33	27	50	38	31	26	35	29	25	31	26	23	28	24	21	19				
10	49	37	30	25	47	35	28	24	32	26	22	29	24	21	26	22	19	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	2.5
10°-20°	433.6	7.0
20°-30°	643.2	10.4
30°-40°	752.6	12.1
40°-50°	749.3	12.1
50°-60°	647.0	10.4
60°-70°	465.7	7.5
70°-80°	244.2	3.9
80°-90°	60.6	1.0
90°-100°	150.8	2.4
100°-110°	428.9	6.9
110°-120°	411.0	6.6
120°-130°	325.3	5.2
130°-140°	261.1	4.2
140°-150°	204.4	3.3
150°-160°	149.6	2.4
160°-170°	92.6	1.5
170°-180°	31.4	0.5
0°-30°	1230.4	19.8
0°-40°	1983.1	32.0
0°-60°	3379.3	54.5
0°-90°	4149.9	66.9
90°-120°	990.7	16.0
90°-150°	1781.4	28.7
90°-180°	2055.0	33.1
0°-180°	6204.9	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°	16	65	292	101	62	19
105°	67	101	437	772	734	71
115°	124	150	332	702	825	122
125°	175	194	316	525	628	157
135°	214	232	313	444	501	165
145°	252	265	315	384	418	158
155°	288	295	323	347	361	133
165°	318	320	326	334	338	90
175°	333	332	330	328	326	32
180°	331	331	331	331	331	



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CATALOG NUMBER: SQ4-PW1-025U-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°	5.0	26.7	61.9	18.0	13.6
95°	16.4	64.9	291.8	101.0	62.3
97.5°	30.1	76.1	449.5	321.6	220.4
100°	39.6	82.7	483.7	489.9	377.4
102.5°	50.2	89.8	476.1	627.1	528.8
105°	66.7	101.1	437.1	772.1	734.0
107.5°	83.4	114.3	391.6	813.0	847.0
110°	95.0	123.9	365.4	797.4	873.6

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	106.0	133.5	347.8	760.4	869.1
115°	123.9	149.7	331.5	702.2	824.6
117.5°	139.6	163.9	321.8	638.6	768.2
120°	152.2	172.5	320.8	602.2	726.4
122.5°	162.3	182.6	318.3	570.3	685.7
125°	174.8	193.9	316.4	525.0	627.7
127.5°	188.6	206.4	315.4	497.9	582.5
130°	195.6	213.4	313.8	479.1	552.9
132.5°	203.2	220.5	313.8	464.3	532.2
135°	213.8	231.7	312.6	443.5	501.3
137.5°	223.9	241.3	312.5	425.8	475.7
140°	231.5	249.3	312.0	411.2	459.1
142.5°	240.0	254.9	313.5	399.5	442.5
145°	252.2	265.1	315.1	383.8	418.3
147.5°	262.7	275.2	317.9	368.0	397.8
150°	271.7	280.3	318.9	362.8	383.7
152.5°	278.8	287.9	319.9	355.7	375.1
155°	288.1	294.8	322.7	346.9	361.0
157.5°	299.6	303.7	323.3	342.9	353.0
160°	305.7	308.7	325.8	339.8	348.4
162.5°	309.2	312.8	326.3	337.3	343.9
165°	318.3	319.5	326.4	333.5	338.4
167.5°	324.4	323.3	329.3	332.5	334.5
170°	326.4	325.8	328.3	329.0	331.5
172.5°	331.0	328.9	329.8	328.0	329.9
175°	333.3	331.5	330.2	328.3	325.8
177.5°	334.4	331.4	329.8	327.8	328.3
180°	330.8	330.8	330.8	330.8	330.8

(END OF REPORT)