

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: P562171

Luminaire Tested: **SQ4-PW1-025U-100D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562171  
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 (4500K)  
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 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

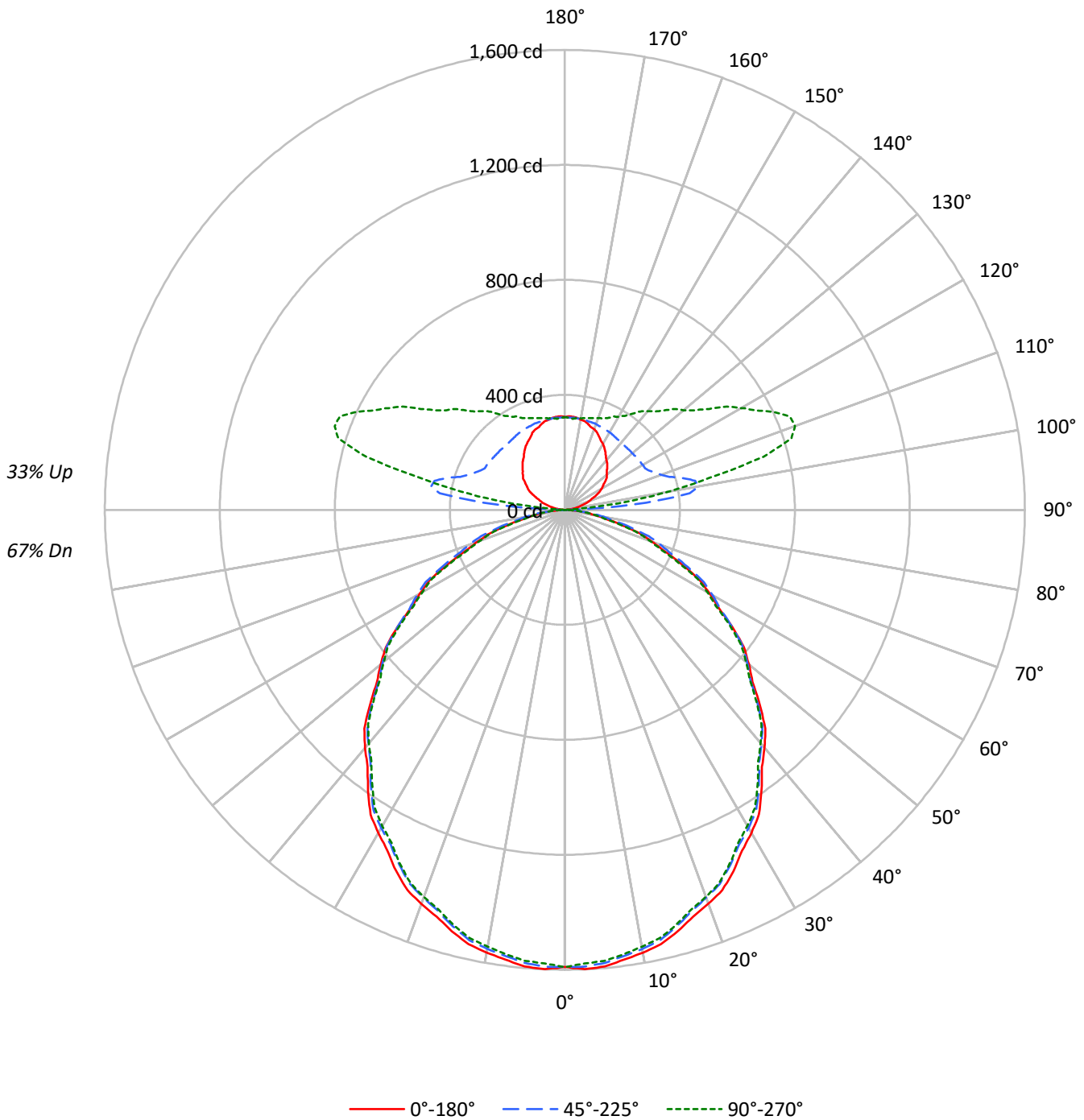
Lumens per Lamp: N/A  
Luminaire Lumens: 6050.8 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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°	14675	14675	14675
5°	14770	14653	14588
10°	14651	14533	14455
15°	14497	14336	14283
20°	14323	14103	14076
25°	14124	13866	13823
30°	13825	13616	13526
35°	13432	13243	13163
40°	13013	12810	12759
45°	12506	12342	12287
50°	11988	11888	11807
55°	11429	11429	11249
60°	10732	10939	10551
65°	9820	10311	9575
70°	8656	9487	8430
75°	7393	8491	7194
80°	5733	7146	5807
85°	3705	5494	4891



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.8	2.5
10°-20°	422.9	7.0
20°-30°	627.2	10.4
30°-40°	733.9	12.1
40°-50°	730.7	12.1
50°-60°	631.0	10.4
60°-70°	454.2	7.5
70°-80°	238.2	3.9
80°-90°	59.0	1.0
90°-100°	147.0	2.4
100°-110°	418.3	6.9
110°-120°	400.8	6.6
120°-130°	317.2	5.2
130°-140°	254.6	4.2
140°-150°	199.3	3.3
150°-160°	145.8	2.4
160°-170°	90.3	1.5
170°-180°	30.7	0.5
0°-30°	1199.9	19.8
0°-40°	1933.8	32.0
0°-60°	3295.4	54.5
0°-90°	4046.8	66.9
90°-120°	966.1	16.0
90°-150°	1737.2	28.7
90°-180°	2004.0	33.1
0°-180°	6050.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1591	1591	1591	1591	1591	
5°	1595	1577	1582	1578	1575	151
15°	1518	1498	1501	1498	1495	428
25°	1387	1364	1362	1354	1358	638
35°	1193	1176	1176	1165	1169	746
45°	958	950	946	943	942	740
55°	710	709	710	701	699	634
65°	450	464	472	454	439	446
75°	207	227	238	222	202	222
85°	35	46	52	49	46	46
90°	0	0	0	0	0	2
95°	16	63	285	98	61	18
105°	65	99	426	753	716	69
115°	121	146	323	685	804	119
125°	170	189	308	512	612	153
135°	208	226	305	432	489	161
145°	246	258	307	374	408	154
155°	281	288	315	338	352	130
165°	310	312	318	325	330	87
175°	325	323	322	320	318	31
180°	323	323	323	323	323	

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CATALOG NUMBER: SQ4-PW1-025U-100D-92765-1D-UNV-STD-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1590.6	1590.6	1590.6	1590.6	1590.6
2.5°	1599.5	1586.4	1590.6	1587.0	1579.4
5°	1594.8	1577.0	1582.2	1577.9	1575.1
7.5°	1578.5	1562.1	1565.9	1561.4	1559.7
10°	1563.9	1547.5	1551.3	1545.7	1542.9
12.5°	1547.1	1529.6	1533.4	1527.7	1526.1
15°	1517.7	1498.5	1500.9	1498.0	1495.3
17.5°	1483.5	1464.0	1464.4	1459.9	1459.4
20°	1458.8	1438.3	1436.4	1430.9	1433.6
22.5°	1431.9	1410.3	1408.4	1400.6	1404.5
25°	1387.4	1364.1	1362.1	1353.8	1357.9
27.5°	1335.8	1312.8	1312.8	1301.1	1305.5
30°	1297.7	1275.8	1278.1	1264.2	1269.6
32.5°	1257.3	1237.6	1238.8	1224.9	1230.4
35°	1192.6	1176.1	1175.8	1164.6	1168.7
37.5°	1126.4	1111.9	1109.6	1103.2	1104.3
40°	1080.5	1068.1	1063.6	1059.4	1059.4
42.5°	1032.3	1021.0	1016.6	1013.5	1012.4
45°	958.5	950.3	945.9	943.1	941.7
47.5°	885.7	878.0	874.2	872.2	870.8
50°	835.2	829.7	828.2	824.0	822.6
52.5°	784.8	781.5	780.0	774.7	773.3
55°	710.5	709.1	710.5	700.7	699.3
57.5°	633.1	635.3	639.9	626.6	623.3
60°	581.6	587.1	592.8	577.2	571.8
62.5°	528.9	537.6	545.7	527.9	520.2
65°	449.8	463.5	472.3	453.7	438.6
67.5°	373.6	390.6	401.1	381.1	364.1
70°	320.9	340.1	351.7	331.7	312.5
72.5°	275.0	296.3	305.8	286.8	267.7
75°	207.4	226.6	238.2	222.4	201.8
77.5°	147.1	165.2	174.9	161.1	144.1
80°	107.9	127.1	134.5	123.0	109.3
82.5°	76.5	92.4	97.5	90.6	81.3
85°	35.0	46.0	51.9	49.0	46.2
87.5°	9.0	16.6	21.3	21.3	22.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.9	26.0	60.4	17.6	13.2
95°	15.9	63.3	284.6	98.5	60.7
97.5°	29.3	74.2	438.3	313.6	214.9
100°	38.6	80.6	471.7	477.7	368.0
102.5°	48.9	87.6	464.3	611.5	515.7
105°	65.0	98.6	426.3	752.9	715.8
107.5°	81.3	111.4	381.9	792.8	825.9
110°	92.6	120.8	356.3	777.6	851.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	103.4	130.2	339.2	741.5	847.5
115°	120.8	146.0	323.2	684.7	804.1
117.5°	136.2	159.8	313.8	622.7	749.1
120°	148.4	168.2	312.8	587.3	708.4
122.5°	158.2	178.0	310.3	556.2	668.7
125°	170.5	189.1	308.5	512.0	612.1
127.5°	183.9	201.3	307.5	485.6	568.1
130°	190.7	208.1	306.1	467.2	539.1
132.5°	198.1	215.0	306.1	452.8	519.0
135°	208.5	225.9	304.8	432.5	488.8
137.5°	218.3	235.3	304.7	415.2	463.9
140°	225.7	243.1	304.2	401.0	447.7
142.5°	234.0	248.6	305.7	389.6	431.5
145°	245.9	258.5	307.3	374.3	407.9
147.5°	256.1	268.4	310.0	358.8	387.9
150°	265.0	273.4	311.0	353.7	374.1
152.5°	271.8	280.7	311.9	346.8	365.8
155°	280.9	287.5	314.6	338.3	352.1
157.5°	292.2	296.2	315.3	334.4	344.2
160°	298.1	301.1	317.7	331.4	339.8
162.5°	301.5	305.0	318.2	328.9	335.4
165°	310.3	311.5	318.3	325.2	330.0
167.5°	316.4	315.3	321.1	324.3	326.2
170°	318.3	317.7	320.2	320.8	323.2
172.5°	322.7	320.7	321.6	319.8	321.8
175°	325.1	323.3	322.0	320.1	317.7
177.5°	326.0	323.2	321.6	319.7	320.2
180°	322.6	322.6	322.6	322.6	322.6

(END OF REPORT)