

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: P564532

Luminaire Tested: **SQ4-PW1-025U-050D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564532  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-050D-840-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

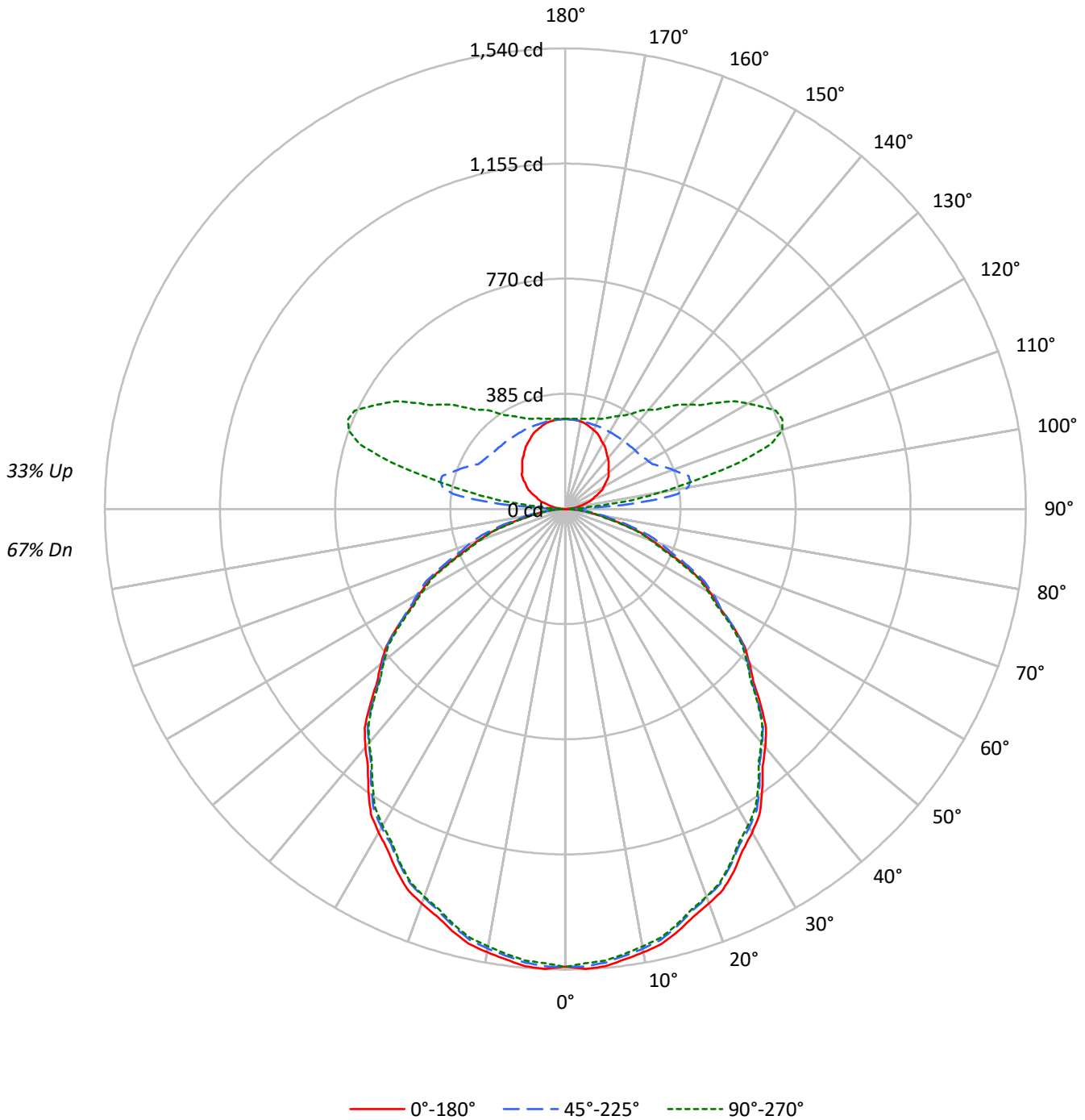
Lumens per Lamp: N/A  
Luminaire Lumens: 5847.8 lumens  
Efficiency: N/A  
Efficacy: 128.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 45.7  
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	105	105	105	105	93	93	93	82	82	82	71	71	71	67
1	102	97	93	90	96	92	88	85	82	79	77	72	70	68	63	62	61	56
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51	47
3	85	75	67	61	79	71	64	59	63	58	54	56	52	49	50	46	44	40
4	78	66	58	52	73	63	56	50	56	50	46	50	45	42	44	41	38	35
5	71	59	51	45	67	56	49	43	50	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	26
7	61	48	40	34	57	46	38	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	30	53	42	35	29	38	32	27	34	29	25	31	26	23	21
9	53	40	32	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°	7062	7062	7062
5°	7108	7052	7020
10°	7051	6994	6956
15°	6976	6899	6873
20°	6893	6787	6774
25°	6797	6673	6653
30°	6653	6552	6509
35°	6464	6373	6335
40°	6262	6165	6141
45°	6019	5939	5913
50°	5769	5721	5682
55°	5500	5500	5413
60°	5164	5264	5077
65°	4726	4961	4609
70°	4166	4566	4057
75°	3558	4087	3461
80°	2760	3440	2795
85°	1784	2641	2355



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.2	2.5
10°-20°	407.0	7.0
20°-30°	603.7	10.3
30°-40°	706.4	12.1
40°-50°	703.2	12.0
50°-60°	607.3	10.4
60°-70°	437.1	7.5
70°-80°	229.2	3.9
80°-90°	58.4	1.0
90°-100°	146.7	2.5
100°-110°	385.7	6.6
110°-120°	400.0	6.8
120°-130°	320.8	5.5
130°-140°	251.7	4.3
140°-150°	193.2	3.3
150°-160°	139.2	2.4
160°-170°	85.1	1.5
170°-180°	28.8	0.5
0°-30°	1154.8	19.7
0°-40°	1861.2	31.8
0°-60°	3171.7	54.2
0°-90°	3896.5	66.6
90°-120°	932.4	15.9
90°-150°	1698.2	29.0
90°-180°	1951.0	33.4
0°-180°	5847.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1531	1531	1531	1531	1531	
5°	1535	1518	1523	1519	1516	145
15°	1461	1442	1444	1442	1439	412
25°	1335	1313	1311	1303	1307	614
35°	1148	1132	1132	1121	1125	718
45°	923	915	910	908	906	712
55°	684	682	684	674	673	610
65°	433	446	454	437	422	429
75°	200	218	229	214	194	214
85°	34	44	50	47	44	45
90°	2	6	15	8	8	3
95°	19	76	253	130	89	22
105°	70	105	426	647	604	74
115°	124	150	342	682	778	122
125°	172	192	311	525	620	152
135°	205	225	301	424	480	158
145°	237	252	297	362	390	149
155°	268	276	297	326	336	123
165°	290	293	297	309	313	82
175°	301	301	299	303	303	29
180°	301	301	301	301	301	

TEST NUMBER: P564532

CATALOG NUMBER: SQ4-PW1-025U-050D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1530.9	1530.9	1530.9	1530.9	1530.9
2.5°	1539.5	1526.8	1530.9	1527.4	1520.1
5°	1534.9	1517.8	1522.8	1518.7	1516.0
7.5°	1519.3	1503.4	1507.1	1502.8	1501.2
10°	1505.2	1489.4	1493.1	1487.6	1485.0
12.5°	1489.0	1472.2	1475.8	1470.4	1468.8
15°	1460.7	1442.3	1444.5	1441.8	1439.1
17.5°	1427.8	1409.1	1409.5	1405.1	1404.6
20°	1404.1	1384.3	1382.5	1377.2	1379.8
22.5°	1378.2	1357.3	1355.5	1348.0	1351.7
25°	1335.3	1312.9	1311.0	1303.0	1307.0
27.5°	1285.6	1263.5	1263.5	1252.3	1256.5
30°	1249.0	1227.9	1230.1	1216.7	1222.0
32.5°	1210.1	1191.1	1192.3	1178.9	1184.2
35°	1147.8	1132.0	1131.6	1120.9	1124.9
37.5°	1084.1	1070.2	1068.0	1061.8	1062.8
40°	1039.9	1028.0	1023.7	1019.7	1019.7
42.5°	993.5	982.7	978.4	975.4	974.4
45°	922.6	914.6	910.4	907.7	906.4
47.5°	852.4	845.0	841.4	839.4	838.1
50°	803.9	798.6	797.1	793.0	791.7
52.5°	755.3	752.1	750.7	745.6	744.3
55°	683.8	682.5	683.8	674.4	673.0
57.5°	609.4	611.5	615.8	603.1	599.9
60°	559.7	565.0	570.5	555.6	550.3
62.5°	509.0	517.5	525.2	508.0	500.7
65°	433.0	446.1	454.5	436.7	422.2
67.5°	359.6	375.9	386.0	366.8	350.4
70°	308.9	327.3	338.5	319.2	300.8
72.5°	264.6	285.2	294.3	276.1	257.6
75°	199.6	218.1	229.3	214.0	194.2
77.5°	141.6	159.0	168.3	155.0	138.7
80°	103.9	122.3	129.5	118.4	105.2
82.5°	73.6	88.9	93.9	87.2	78.2
85°	33.7	44.3	49.9	47.1	44.5
87.5°	9.0	17.2	23.6	22.1	23.1
90°	1.9	5.7	15.4	7.7	7.7
92.5°	8.1	39.1	86.5	38.3	24.7
95°	19.3	75.9	252.8	130.3	88.8
97.5°	33.6	83.4	378.2	300.8	221.5
100°	44.4	89.7	416.8	422.4	328.1
102.5°	53.6	95.9	427.6	526.2	445.4
105°	69.5	105.3	426.5	647.4	604.0
107.5°	85.7	118.9	402.2	710.4	721.0
110°	96.5	126.7	382.1	726.6	771.9

TEST NUMBER: P564532

CATALOG NUMBER: SQ4-PW1-025U-050D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	107.3	136.0	363.6	716.4	785.8
115°	123.5	149.9	341.6	681.5	777.7
117.5°	139.3	163.5	326.5	633.1	739.9
120°	148.6	171.2	320.3	600.6	704.4
122.5°	157.9	180.5	315.7	568.1	670.4
125°	171.8	192.5	310.7	525.1	619.5
127.5°	182.9	204.1	306.5	490.4	570.1
130°	189.1	211.8	304.9	468.7	542.3
132.5°	195.3	217.9	303.4	450.0	516.0
135°	204.6	225.3	301.0	423.9	480.5
137.5°	214.2	234.6	300.7	404.4	450.8
140°	221.9	240.8	299.1	388.9	432.3
142.5°	228.1	245.5	299.1	377.9	415.3
145°	237.4	252.5	297.2	361.5	389.8
147.5°	246.6	261.3	297.2	347.9	371.3
150°	252.8	266.0	297.2	340.1	358.9
152.5°	259.0	269.2	297.2	333.8	348.1
155°	268.2	275.8	297.2	326.4	335.8
157.5°	275.2	282.4	297.2	319.7	326.5
160°	279.8	285.5	297.2	316.6	320.3
162.5°	284.5	288.6	297.2	313.5	317.3
165°	289.5	293.2	297.2	308.9	312.6
167.5°	294.1	296.0	299.1	306.9	308.4
170°	297.2	299.1	299.1	306.8	306.8
172.5°	298.7	299.1	299.1	305.3	303.8
175°	301.0	301.0	299.1	303.0	303.0
177.5°	301.0	301.0	299.5	302.6	301.0
180°	301.0	301.0	301.0	301.0	301.0

(END OF REPORT)