

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: P564560

Luminaire Tested: **SQ4-PW1-025U-075D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564560  
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-075D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

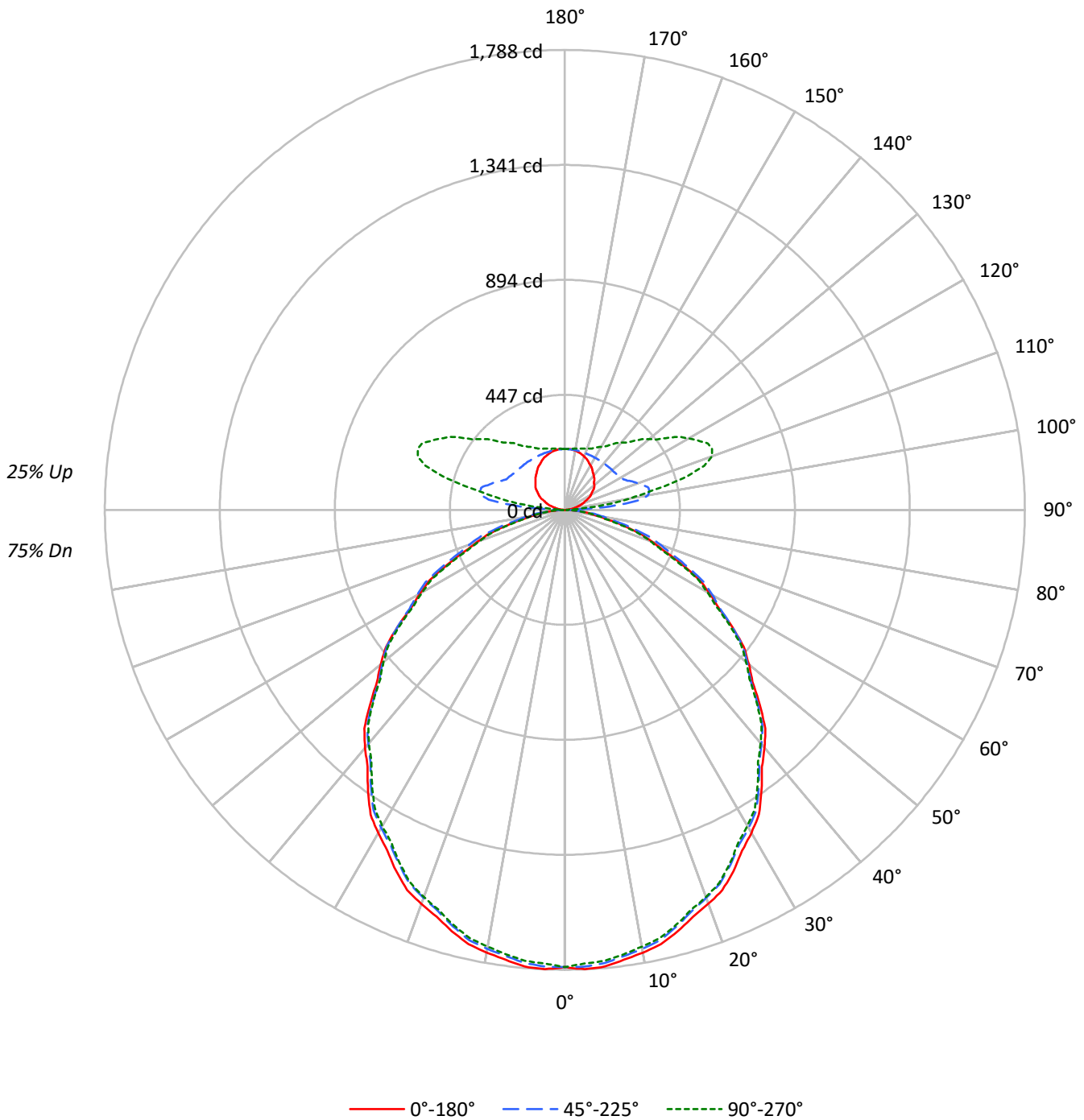
Lumens per Lamp: N/A  
Luminaire Lumens: 6061.2 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 64.9  
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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	75
1	103	99	95	91	98	94	91	88	86	83	80	77	75	73	70	68	67	63
2	94	87	80	75	89	83	77	72	75	71	67	68	65	62	62	59	57	53
3	86	76	69	63	82	73	66	60	66	61	56	60	56	52	55	51	48	45
4	79	68	59	53	75	65	57	51	59	53	48	54	49	45	49	45	42	39
5	73	61	52	46	69	58	50	44	53	47	42	48	43	39	44	40	36	34
6	67	54	46	40	64	52	44	39	48	41	37	44	38	34	40	36	32	30
7	62	49	41	35	59	47	40	34	44	37	32	40	35	30	37	32	29	26
8	58	45	37	31	55	43	36	31	40	33	29	37	31	27	34	29	26	23
9	54	41	33	28	51	40	32	27	37	30	26	34	28	25	31	27	23	21
10	50	38	30	25	48	37	30	25	34	28	24	31	26	22	29	24	21	19

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

	0°	45°	90°
0°	8200	8200	8200
5°	8253	8188	8151
10°	8187	8121	8077
15°	8100	8011	7981
20°	8004	7881	7865
25°	7892	7748	7725
30°	7725	7608	7558
35°	7506	7400	7356
40°	7272	7158	7130
45°	6988	6896	6866
50°	6699	6643	6598
55°	6386	6386	6285
60°	5997	6112	5896
65°	5487	5761	5351
70°	4837	5302	4711
75°	4132	4745	4019
80°	3204	3993	3246
85°	2075	3065	2736



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.4	2.8
10°-20°	472.6	7.8
20°-30°	701.0	11.6
30°-40°	820.2	13.5
40°-50°	816.6	13.5
50°-60°	705.1	11.6
60°-70°	507.6	8.4
70°-80°	266.2	4.4
80°-90°	67.3	1.1
90°-100°	115.6	1.9
100°-110°	303.9	5.0
110°-120°	315.1	5.2
120°-130°	252.8	4.2
130°-140°	198.3	3.3
140°-150°	152.2	2.5
150°-160°	109.6	1.8
160°-170°	67.1	1.1
170°-180°	22.7	0.4
0°-30°	1341.0	22.1
0°-40°	2161.2	35.7
0°-60°	3682.9	60.8
0°-90°	4523.9	74.6
90°-120°	734.6	12.1
90°-150°	1337.9	22.1
90°-180°	1537.0	25.4
0°-180°	6061.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1778	1778	1778	1778	1778	
5°	1782	1762	1768	1763	1760	169
15°	1696	1675	1677	1674	1671	478
25°	1550	1524	1522	1513	1518	713
35°	1333	1314	1314	1302	1306	833
45°	1071	1062	1057	1054	1052	827
55°	794	792	794	783	782	708
65°	503	518	528	507	490	498
75°	232	253	266	248	226	248
85°	39	51	58	55	52	52
90°	2	4	12	6	6	3
95°	15	60	199	103	70	17
105°	55	83	336	510	476	58
115°	97	118	269	537	613	96
125°	135	152	245	414	488	120
135°	161	178	237	334	379	125
145°	187	199	234	285	307	117
155°	211	217	234	257	264	97
165°	228	231	234	243	246	64
175°	237	237	236	239	239	23
180°	237	237	237	237	237	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1777.6	1777.6	1777.6	1777.6	1777.6
2.5°	1787.6	1772.9	1777.6	1773.6	1765.0
5°	1782.3	1762.4	1768.2	1763.4	1760.3
7.5°	1764.1	1745.7	1750.0	1745.0	1743.1
10°	1747.8	1729.4	1733.7	1727.4	1724.3
12.5°	1729.0	1709.4	1713.7	1707.4	1705.5
15°	1696.1	1674.7	1677.3	1674.1	1671.1
17.5°	1657.9	1636.2	1636.6	1631.6	1631.0
20°	1630.4	1607.4	1605.3	1599.1	1602.2
22.5°	1600.3	1576.1	1574.0	1565.3	1569.6
25°	1550.5	1524.5	1522.3	1513.0	1517.6
27.5°	1492.9	1467.1	1467.2	1454.1	1459.0
30°	1450.3	1425.7	1428.3	1412.8	1418.9
32.5°	1405.1	1383.1	1384.5	1369.0	1375.1
35°	1332.8	1314.4	1314.0	1301.6	1306.2
37.5°	1258.9	1242.6	1240.1	1232.9	1234.1
40°	1207.5	1193.7	1188.7	1184.0	1184.0
42.5°	1153.6	1141.1	1136.1	1132.6	1131.4
45°	1071.2	1062.1	1057.1	1054.0	1052.4
47.5°	989.8	981.2	977.0	974.7	973.2
50°	933.4	927.3	925.6	920.9	919.3
52.5°	877.0	873.4	871.7	865.7	864.2
55°	794.0	792.5	794.0	783.0	781.5
57.5°	707.6	710.0	715.1	700.3	696.6
60°	650.0	656.1	662.5	645.1	639.0
62.5°	591.1	600.9	609.9	589.9	581.4
65°	502.7	518.0	527.8	507.0	490.2
67.5°	417.5	436.5	448.2	425.9	406.9
70°	358.6	380.1	393.1	370.7	349.3
72.5°	307.3	331.2	341.7	320.6	299.1
75°	231.8	253.2	266.2	248.5	225.5
77.5°	164.4	184.7	195.5	180.0	161.0
80°	120.6	142.0	150.3	137.5	122.2
82.5°	85.5	103.3	109.0	101.2	90.8
85°	39.2	51.4	57.9	54.7	51.7
87.5°	10.3	19.5	26.2	25.0	26.3
90°	1.5	4.5	12.2	6.1	6.1
92.5°	6.4	30.8	68.1	30.2	19.5
95°	15.2	59.8	199.2	102.6	69.9
97.5°	26.5	65.7	298.0	237.0	174.5
100°	35.0	70.6	328.4	332.8	258.5
102.5°	42.3	75.6	336.9	414.5	350.9
105°	54.7	83.0	336.0	510.1	475.9
107.5°	67.5	93.7	316.8	559.7	568.0
110°	76.0	99.8	301.0	572.5	608.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	84.5	107.1	286.4	564.4	619.1
115°	97.3	118.1	269.1	536.9	612.7
117.5°	109.8	128.8	257.2	498.8	582.9
120°	117.1	134.9	252.4	473.2	554.9
122.5°	124.4	142.2	248.7	447.6	528.2
125°	135.3	151.7	244.8	413.7	488.0
127.5°	144.1	160.8	241.4	386.4	449.1
130°	149.0	166.8	240.2	369.2	427.2
132.5°	153.9	171.7	239.0	354.5	406.5
135°	161.2	177.5	237.2	334.0	378.6
137.5°	168.8	184.8	236.9	318.6	355.2
140°	174.8	189.7	235.7	306.4	340.6
142.5°	179.7	193.4	235.7	297.7	327.2
145°	187.0	198.9	234.1	284.8	307.1
147.5°	194.3	205.9	234.1	274.1	292.5
150°	199.2	209.6	234.1	267.9	282.8
152.5°	204.0	212.1	234.1	263.0	274.3
155°	211.3	217.3	234.1	257.1	264.5
157.5°	216.8	222.5	234.1	251.9	257.2
160°	220.5	224.9	234.1	249.4	252.4
162.5°	224.1	227.4	234.1	247.0	249.9
165°	228.1	231.0	234.1	243.3	246.3
167.5°	231.7	233.2	235.7	241.8	243.0
170°	234.1	235.6	235.7	241.7	241.7
172.5°	235.3	235.6	235.7	240.5	239.3
175°	237.2	237.2	235.7	238.7	238.7
177.5°	237.2	237.2	236.0	238.4	237.2
180°	237.2	237.2	237.2	237.2	237.2

(END OF REPORT)