

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: P562570

Luminaire Tested: **SQ4-PC3-025U-100D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562570  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-025U-100D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

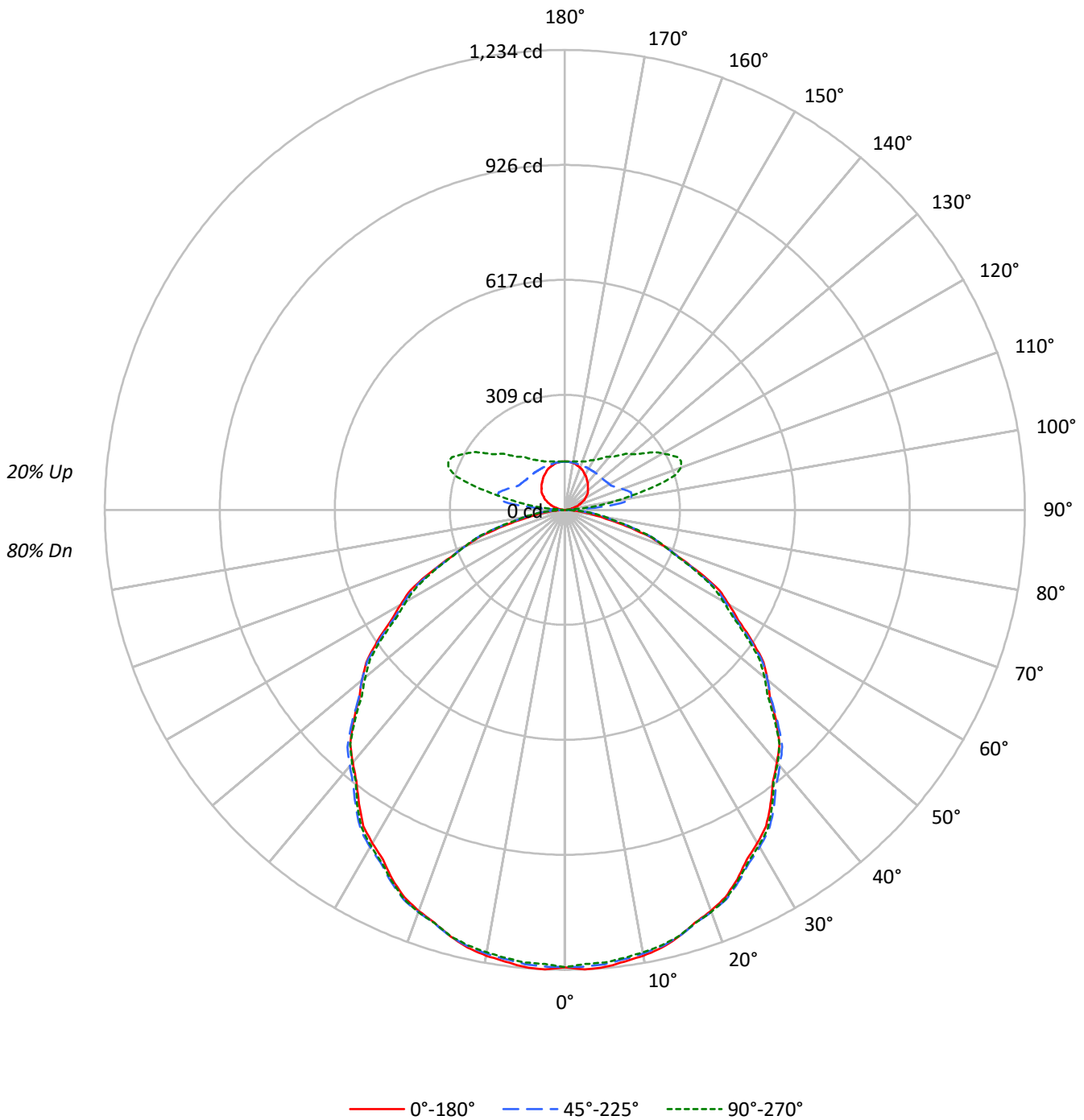
Lumens per Lamp: N/A  
Luminaire Lumens: 4188.7 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 38.7  
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	84	84	84	80
1	105	100	96	92	100	96	92	89	88	85	83	81	79	77	74	72	71	68
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60	57
3	87	77	69	63	83	74	67	61	68	62	58	63	58	54	58	54	51	48
4	80	68	60	53	76	66	58	52	61	54	49	56	51	46	52	47	44	41
5	73	61	52	46	70	59	51	45	54	48	43	50	45	40	46	42	38	36
6	68	55	46	40	64	53	45	39	49	42	37	45	40	35	42	37	34	31
7	63	50	41	35	60	48	40	34	45	38	33	41	36	31	38	34	30	28
8	58	45	37	31	56	44	36	31	41	34	29	38	32	28	35	30	27	25
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	33	28	24	22
10	51	38	30	25	49	37	30	25	35	28	24	32	27	23	30	25	22	20

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

	0°	45°	90°
0°	11321	11321	11321
5°	11405	11332	11290
10°	11378	11325	11293
15°	11319	11319	11307
20°	11244	11277	11277
25°	11138	11218	11184
30°	11002	11135	11087
35°	10838	11004	10927
40°	10659	10809	10700
45°	10466	10540	10377
50°	10192	10192	10029
55°	9868	9740	9595
60°	9392	9202	9056
65°	8680	8508	8433
70°	7602	7661	7631
75°	6117	6762	6805
80°	4346	5733	5797
85°	2646	4806	4806



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.1	2.8
10°-20°	333.2	8.0
20°-30°	504.6	12.0
30°-40°	605.0	14.4
40°-50°	616.9	14.7
50°-60°	538.5	12.9
60°-70°	385.5	9.2
70°-80°	198.6	4.7
80°-90°	50.9	1.2
90°-100°	63.1	1.5
100°-110°	165.9	4.0
110°-120°	172.0	4.1
120°-130°	138.0	3.3
130°-140°	108.3	2.6
140°-150°	83.1	2.0
150°-160°	59.9	1.4
160°-170°	36.6	0.9
170°-180°	12.4	0.3
0°-30°	954.0	22.8
0°-40°	1559.0	37.2
0°-60°	2714.4	64.8
0°-90°	3349.4	80.0
90°-120°	401.1	9.6
90°-150°	730.4	17.4
90°-180°	839.0	20.0
0°-180°	4188.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1227	1227	1227	1227	1227	
5°	1232	1219	1224	1220	1219	117
15°	1185	1175	1185	1185	1184	334
25°	1094	1086	1102	1099	1099	504
35°	962	960	977	970	970	602
45°	802	800	808	798	795	617
55°	614	606	606	596	596	547
65°	398	389	390	386	386	393
75°	172	179	190	191	191	185
85°	25	38	45	47	45	34
90°	1	2	7	3	3	2
95°	8	33	109	56	38	9
105°	30	45	183	278	260	32
115°	53	64	147	293	334	52
125°	74	83	134	226	266	66
135°	88	97	130	182	207	68
145°	102	109	128	156	168	64
155°	115	119	128	140	144	53
165°	124	126	128	133	134	35
175°	130	130	129	130	130	12
180°	130	130	130	130	130	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1227.0	1227.0	1227.0	1227.0	1227.0
2.5°	1234.3	1223.6	1227.0	1224.2	1219.7
5°	1231.5	1219.3	1223.6	1220.1	1219.0
7.5°	1222.7	1210.5	1216.1	1213.8	1212.7
10°	1214.5	1202.3	1208.8	1206.5	1205.4
12.5°	1203.6	1192.3	1199.7	1197.4	1197.2
15°	1185.0	1175.0	1185.0	1184.9	1183.8
17.5°	1161.5	1152.4	1163.1	1163.8	1163.1
20°	1145.2	1135.2	1148.6	1147.5	1148.6
22.5°	1125.2	1117.0	1131.3	1128.4	1129.5
25°	1094.1	1086.3	1102.0	1098.6	1098.6
27.5°	1057.3	1051.7	1068.8	1065.2	1065.2
30°	1032.7	1027.2	1045.2	1040.7	1040.7
32.5°	1005.4	1001.7	1018.9	1013.4	1013.4
35°	962.3	960.1	977.0	970.2	970.2
37.5°	917.7	915.7	931.1	922.9	920.2
40°	885.0	883.9	897.5	888.4	888.4
42.5°	852.3	851.2	863.0	852.1	852.1
45°	802.1	799.9	807.8	797.5	795.3
47.5°	747.3	745.1	750.1	738.9	737.8
50°	710.1	707.8	710.1	699.8	698.7
52.5°	671.9	667.9	668.3	658.0	657.8
55°	613.5	605.7	605.5	596.5	596.5
57.5°	551.7	541.5	542.4	534.6	533.5
60°	509.0	497.9	498.7	491.9	490.8
62.5°	467.2	454.3	456.9	449.2	449.0
65°	397.6	388.7	389.7	386.3	386.3
67.5°	330.8	322.6	328.6	325.8	325.6
70°	281.8	276.2	284.0	284.0	282.9
72.5°	236.3	236.1	245.9	245.9	246.5
75°	171.6	179.3	189.7	190.9	190.9
77.5°	114.5	128.3	139.7	140.2	140.0
80°	81.8	97.4	107.9	110.2	109.1
82.5°	55.4	71.9	80.7	82.9	81.8
85°	25.0	38.3	45.4	46.6	45.4
87.5°	7.4	15.8	19.5	18.8	17.0
90°	0.8	2.5	6.6	3.3	3.3
92.5°	3.5	16.8	37.2	16.5	10.6
95°	8.3	32.6	108.7	56.0	38.2
97.5°	14.4	35.9	162.7	129.4	95.3
100°	19.1	38.6	179.3	181.7	141.1
102.5°	23.1	41.3	183.9	226.3	191.6
105°	29.9	45.3	183.4	278.5	259.8
107.5°	36.9	51.1	173.0	305.6	310.1
110°	41.5	54.5	164.3	312.5	332.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	46.2	58.5	156.4	308.1	338.0
115°	53.1	64.5	146.9	293.1	334.5
117.5°	59.9	70.3	140.4	272.3	318.2
120°	63.9	73.7	137.8	258.3	303.0
122.5°	67.9	77.6	135.8	244.4	288.4
125°	73.9	82.8	133.6	225.9	266.4
127.5°	78.7	87.8	131.8	210.9	245.2
130°	81.3	91.1	131.1	201.6	233.2
132.5°	84.0	93.7	130.5	193.5	222.0
135°	88.0	96.9	129.5	182.3	206.7
137.5°	92.1	100.9	129.3	173.9	193.9
140°	95.5	103.6	128.7	167.3	185.9
142.5°	98.1	105.6	128.7	162.6	178.6
145°	102.1	108.6	127.8	155.5	167.7
147.5°	106.1	112.4	127.8	149.6	159.7
150°	108.7	114.4	127.8	146.3	154.4
152.5°	111.4	115.8	127.8	143.6	149.7
155°	115.4	118.6	127.8	140.4	144.4
157.5°	118.4	121.4	127.8	137.5	140.4
160°	120.4	122.8	127.8	136.2	137.8
162.5°	122.3	124.1	127.8	134.8	136.5
165°	124.5	126.1	127.8	132.8	134.5
167.5°	126.5	127.3	128.7	132.0	132.6
170°	127.8	128.6	128.7	132.0	132.0
172.5°	128.5	128.7	128.7	131.3	130.6
175°	129.5	129.5	128.7	130.3	130.3
177.5°	129.5	129.5	128.8	130.1	129.5
180°	129.5	129.5	129.5	129.5	129.5

(END OF REPORT)