

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: P562552

Luminaire Tested: **SQ4-PC3-025U-075D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562552  
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-075D-940-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

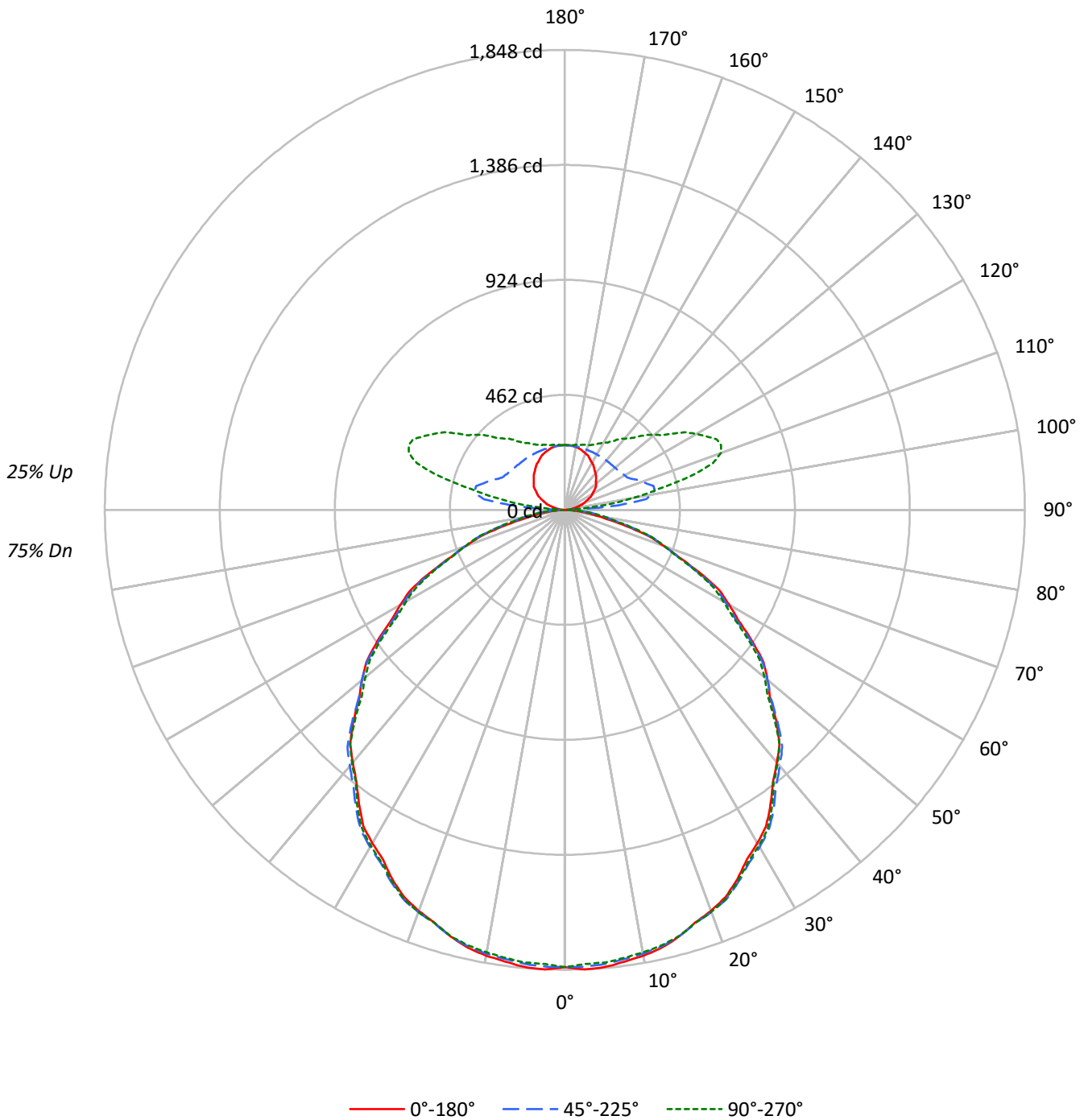
Lumens per Lamp: N/A  
Luminaire Lumens: 6703.2 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

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	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	103	99	95	91	98	94	91	88	85	83	80	77	75	73	70	68	67	63
2	94	87	80	75	89	82	77	72	75	70	66	68	64	61	62	59	56	53
3	86	76	68	62	81	73	66	60	66	61	56	60	56	52	55	51	48	45
4	79	67	59	53	75	64	57	51	59	53	48	54	49	44	49	45	41	38
5	72	60	52	45	69	58	50	44	53	46	41	48	43	39	44	39	36	33
6	67	54	46	39	63	52	44	38	48	41	36	44	38	34	40	35	32	29
7	62	49	41	35	59	47	39	34	43	37	32	40	34	30	36	32	28	26
8	57	45	36	31	54	43	35	30	39	33	28	36	31	27	33	29	25	23
9	54	41	33	28	51	39	32	27	36	30	25	33	28	24	31	26	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	26	22	29	24	21	19

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

	0°	45°	90°
0°	8477	8477	8477
5°	8540	8485	8454
10°	8520	8480	8456
15°	8475	8475	8467
20°	8419	8444	8444
25°	8340	8401	8375
30°	8238	8338	8302
35°	8116	8240	8183
40°	7982	8094	8012
45°	7837	7892	7770
50°	7632	7632	7510
55°	7390	7293	7184
60°	7032	6891	6781
65°	6500	6370	6315
70°	5691	5738	5713
75°	4579	5064	5094
80°	3254	4293	4338
85°	1980	3604	3604



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.9	2.6
10°-20°	499.0	7.4
20°-30°	755.7	11.3
30°-40°	906.0	13.5
40°-50°	923.9	13.8
50°-60°	806.4	12.0
60°-70°	577.3	8.6
70°-80°	297.4	4.4
80°-90°	76.6	1.1
90°-100°	126.8	1.9
100°-110°	333.5	5.0
110°-120°	345.8	5.2
120°-130°	277.3	4.1
130°-140°	217.6	3.2
140°-150°	167.0	2.5
150°-160°	120.3	1.8
160°-170°	73.6	1.1
170°-180°	24.9	0.4
0°-30°	1428.7	21.3
0°-40°	2334.7	34.8
0°-60°	4065.0	60.6
0°-90°	5016.3	74.8
90°-120°	806.1	12.0
90°-150°	1468.1	21.9
90°-180°	1687.0	25.2
0°-180°	6703.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1838	1838	1838	1838	1838	
5°	1844	1826	1832	1827	1826	175
15°	1775	1760	1775	1774	1773	500
25°	1638	1627	1650	1645	1645	754
35°	1441	1438	1463	1453	1453	901
45°	1201	1198	1210	1194	1191	925
55°	919	907	907	893	893	819
65°	596	582	584	578	578	589
75°	257	269	284	286	286	278
85°	37	57	68	70	68	51
90°	2	5	13	7	7	3
95°	17	66	218	113	77	19
105°	60	91	369	560	522	64
115°	107	130	295	589	672	105
125°	148	166	269	454	536	132
135°	177	195	260	366	415	137
145°	205	218	257	312	337	129
155°	232	238	257	282	290	107
165°	250	254	257	267	270	71
175°	260	260	259	262	262	25
180°	260	260	260	260	260	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1837.5	1837.5	1837.5	1837.5	1837.5
2.5°	1848.4	1832.4	1837.5	1833.3	1826.6
5°	1844.3	1826.0	1832.4	1827.3	1825.6
7.5°	1831.1	1812.8	1821.2	1817.7	1816.1
10°	1818.8	1800.5	1810.3	1806.9	1805.2
12.5°	1802.5	1785.5	1796.7	1793.3	1792.9
15°	1774.6	1759.6	1774.6	1774.5	1772.9
17.5°	1739.5	1725.9	1741.9	1742.9	1741.9
20°	1715.0	1700.0	1720.1	1718.5	1720.1
22.5°	1685.1	1672.8	1694.3	1689.9	1691.5
25°	1638.5	1626.8	1650.4	1645.3	1645.3
27.5°	1583.3	1575.0	1600.7	1595.2	1595.2
30°	1546.6	1538.3	1565.3	1558.5	1558.5
32.5°	1505.7	1500.1	1525.8	1517.7	1517.7
35°	1441.1	1437.8	1463.2	1453.0	1453.0
37.5°	1374.4	1371.4	1394.5	1382.1	1378.1
40°	1325.4	1323.7	1344.1	1330.5	1330.5
42.5°	1276.4	1274.7	1292.4	1276.1	1276.1
45°	1201.2	1197.9	1209.7	1194.3	1191.0
47.5°	1119.2	1115.9	1123.3	1106.6	1104.9
50°	1063.4	1060.1	1063.4	1048.0	1046.4
52.5°	1006.2	1000.2	1000.8	985.4	985.1
55°	918.8	907.1	906.8	893.2	893.2
57.5°	826.2	810.9	812.3	800.6	799.0
60°	762.2	745.6	746.9	736.7	735.0
62.5°	699.6	680.3	684.3	672.7	672.4
65°	595.5	582.2	583.6	578.5	578.5
67.5°	495.4	483.1	492.0	488.0	487.6
70°	421.9	413.6	425.4	425.3	423.6
72.5°	353.9	353.6	368.2	368.2	369.2
75°	256.9	268.6	284.1	285.8	285.8
77.5°	171.5	192.1	209.3	209.9	209.6
80°	122.5	145.8	161.6	165.0	163.3
82.5°	83.0	107.6	120.8	124.2	122.5
85°	37.4	57.4	68.1	69.7	68.1
87.5°	11.2	23.9	29.9	28.5	25.8
90°	1.7	4.9	13.3	6.7	6.7
92.5°	7.0	33.8	74.7	33.1	21.4
95°	16.7	65.6	218.5	112.6	76.7
97.5°	29.0	72.1	327.0	260.0	191.5
100°	38.4	77.5	360.3	365.2	283.6
102.5°	46.4	82.9	369.7	454.9	385.0
105°	60.1	91.1	368.7	559.7	522.2
107.5°	74.1	102.8	347.7	614.1	623.3
110°	83.4	109.5	330.3	628.2	667.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	92.8	117.6	314.3	619.3	679.3
115°	106.8	129.6	295.3	589.1	672.3
117.5°	120.4	141.3	282.3	547.3	639.6
120°	128.5	148.0	276.9	519.2	608.9
122.5°	136.5	156.0	272.9	491.1	579.6
125°	148.5	166.4	268.6	454.0	535.5
127.5°	158.2	176.4	264.9	424.0	492.8
130°	163.5	183.1	263.6	405.2	468.8
132.5°	168.8	188.4	262.3	389.0	446.1
135°	176.8	194.8	260.3	366.5	415.4
137.5°	185.2	202.8	259.9	349.6	389.7
140°	191.9	208.2	258.6	336.2	373.7
142.5°	197.2	212.2	258.6	326.7	359.0
145°	205.2	218.2	256.9	312.5	337.0
147.5°	213.2	225.9	256.9	300.7	321.0
150°	218.5	230.0	256.9	294.0	310.3
152.5°	223.9	232.7	256.9	288.6	301.0
155°	231.9	238.4	256.9	282.1	290.3
157.5°	237.9	244.1	256.9	276.4	282.3
160°	241.9	246.8	256.9	273.7	276.9
162.5°	245.9	249.5	256.9	271.0	274.3
165°	250.2	253.5	256.9	267.0	270.3
167.5°	254.2	255.9	258.6	265.3	266.6
170°	256.9	258.5	258.6	265.3	265.3
172.5°	258.2	258.6	258.6	263.9	262.6
175°	260.3	260.3	258.6	261.9	261.9
177.5°	260.3	260.3	258.9	261.6	260.3
180°	260.3	260.3	260.3	260.3	260.3

(END OF REPORT)