

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: P564587

Luminaire Tested: **SQ4-PW1-025U-100D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564587  
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-100D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

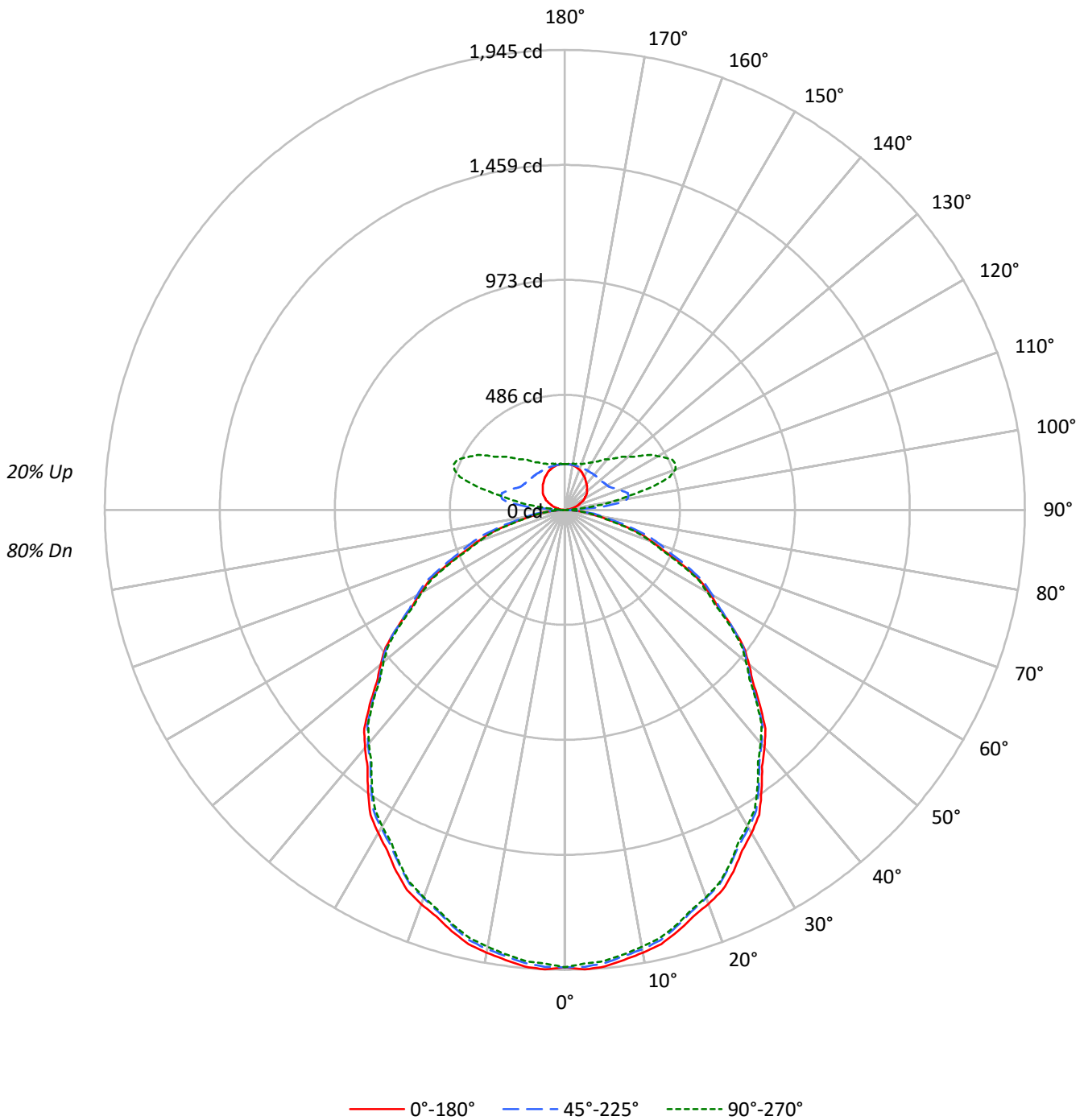
Lumens per Lamp: N/A  
Luminaire Lumens: 6181.1 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 63.5  
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80				
1	105	100	96	93	100	96	92	89	88	85	83	81	79	77	74	72	71	67				
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60	57				
3	87	77	70	63	83	74	67	62	68	63	58	63	58	54	58	54	51	48				
4	80	69	60	54	76	66	58	52	61	55	50	56	51	47	52	48	44	41				
5	73	61	53	46	70	59	51	45	55	48	43	51	45	41	47	42	38	36				
6	68	55	47	41	65	53	45	40	49	43	38	46	40	36	42	38	34	32				
7	63	50	42	36	60	48	40	35	45	38	33	42	36	32	39	34	30	28				
8	58	46	37	32	56	44	36	31	41	35	30	38	33	28	36	31	27	25				
9	55	42	34	29	52	40	33	28	38	31	27	35	30	26	33	28	25	23				
10	51	39	31	26	49	37	30	25	35	29	24	33	27	23	31	26	22	21				

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

	0°	45°	90°
0°	11897	11897	11897
5°	11974	11879	11827
10°	11878	11782	11719
15°	11752	11622	11579
20°	11612	11434	11411
25°	11450	11241	11207
30°	11207	11038	10966
35°	10889	10736	10672
40°	10550	10386	10344
45°	10139	10006	9962
50°	9719	9638	9572
55°	9265	9265	9119
60°	8700	8868	8553
65°	7961	8358	7763
70°	7019	7692	6834
75°	5994	6885	5832
80°	4647	5795	4707
85°	3006	4453	3966



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.1	2.9
10°-20°	514.2	8.3
20°-30°	762.8	12.3
30°-40°	892.5	14.4
40°-50°	888.5	14.4
50°-60°	767.3	12.4
60°-70°	552.3	8.9
70°-80°	289.6	4.7
80°-90°	72.9	1.2
90°-100°	94.7	1.5
100°-110°	248.9	4.0
110°-120°	258.1	4.2
120°-130°	207.0	3.3
130°-140°	162.4	2.6
140°-150°	124.6	2.0
150°-160°	89.8	1.5
160°-170°	54.9	0.9
170°-180°	18.6	0.3
0°-30°	1459.1	23.6
0°-40°	2351.6	38.0
0°-60°	4007.4	64.8
0°-90°	4922.2	79.6
90°-120°	601.6	9.7
90°-150°	1095.7	17.7
90°-180°	1259.0	20.4
0°-180°	6181.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1934	1934	1934	1934	1934	
5°	1939	1918	1924	1919	1916	184
15°	1846	1822	1825	1822	1818	520
25°	1687	1659	1656	1646	1651	776
35°	1450	1430	1430	1416	1421	907
45°	1166	1156	1150	1147	1145	899
55°	864	862	864	852	850	771
65°	547	564	574	552	533	542
75°	252	276	290	270	245	270
85°	43	56	63	60	56	56
90°	1	4	10	5	5	3
95°	12	49	163	84	57	14
105°	45	68	275	418	390	48
115°	80	97	220	440	502	79
125°	111	124	200	339	400	98
135°	132	145	194	274	310	102
145°	153	163	192	233	252	96
155°	173	178	192	211	217	80
165°	187	189	192	199	202	53
175°	194	194	193	196	196	18
180°	194	194	194	194	194	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1934.2	1934.2	1934.2	1934.2	1934.2
2.5°	1945.1	1929.1	1934.2	1929.9	1920.6
5°	1939.3	1917.7	1924.0	1918.8	1915.5
7.5°	1919.6	1899.6	1904.2	1898.7	1896.7
10°	1901.8	1881.8	1886.5	1879.6	1876.3
12.5°	1881.4	1860.1	1864.7	1857.8	1855.8
15°	1845.6	1822.3	1825.1	1821.7	1818.3
17.5°	1804.0	1780.4	1780.8	1775.4	1774.7
20°	1774.0	1749.0	1746.8	1740.0	1743.3
22.5°	1741.3	1715.0	1712.7	1703.2	1707.9
25°	1687.1	1658.8	1656.4	1646.3	1651.3
27.5°	1624.4	1596.4	1596.4	1582.3	1587.6
30°	1578.0	1551.4	1554.2	1537.3	1544.0
32.5°	1529.0	1505.0	1506.5	1489.6	1496.2
35°	1450.2	1430.2	1429.8	1416.3	1421.3
37.5°	1369.8	1352.1	1349.3	1341.5	1342.9
40°	1313.9	1298.9	1293.5	1288.3	1288.3
42.5°	1255.3	1241.6	1236.2	1232.4	1231.1
45°	1165.6	1155.6	1150.3	1146.9	1145.2
47.5°	1077.0	1067.7	1063.0	1060.6	1059.0
50°	1015.7	1009.0	1007.2	1002.0	1000.3
52.5°	954.3	950.3	948.5	942.0	940.4
55°	864.0	862.3	864.0	852.0	850.4
57.5°	769.9	772.6	778.1	762.0	758.0
60°	707.2	713.9	720.9	702.0	695.3
62.5°	643.1	653.8	663.6	641.9	632.6
65°	547.0	563.7	574.3	551.7	533.4
67.5°	454.3	475.0	487.7	463.4	442.7
70°	390.3	413.6	427.7	403.4	380.0
72.5°	334.4	360.3	371.8	348.8	325.5
75°	252.2	275.5	289.7	270.4	245.4
77.5°	178.9	200.9	212.7	195.8	175.2
80°	131.2	154.5	163.6	149.6	132.9
82.5°	93.0	112.4	118.6	110.2	98.8
85°	42.6	55.9	63.1	59.6	56.2
87.5°	11.2	21.0	27.9	26.9	28.3
90°	1.2	3.7	10.0	5.0	5.0
92.5°	5.2	25.2	55.8	24.7	15.9
95°	12.5	49.0	163.1	84.1	57.3
97.5°	21.7	53.8	244.0	194.1	142.9
100°	28.6	57.9	268.9	272.5	211.7
102.5°	34.6	61.9	275.9	339.5	287.4
105°	44.8	68.0	275.2	417.7	389.7
107.5°	55.3	76.7	259.5	458.3	465.2
110°	62.3	81.7	246.5	468.8	498.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	69.2	87.7	234.6	462.2	507.0
115°	79.7	96.7	220.4	439.7	501.8
117.5°	89.9	105.5	210.7	408.5	477.4
120°	95.9	110.5	206.7	387.5	454.4
122.5°	101.8	116.5	203.7	366.6	432.5
125°	110.8	124.2	200.5	338.8	399.7
127.5°	118.0	131.7	197.7	316.4	367.8
130°	122.0	136.6	196.7	302.4	349.9
132.5°	126.0	140.6	195.7	290.3	332.9
135°	132.0	145.4	194.2	273.5	310.0
137.5°	138.2	151.3	194.0	260.9	290.8
140°	143.2	155.4	193.0	250.9	278.9
142.5°	147.2	158.4	193.0	243.8	267.9
145°	153.1	162.9	191.7	233.2	251.5
147.5°	159.1	168.6	191.7	224.5	239.6
150°	163.1	171.6	191.7	219.4	231.6
152.5°	167.1	173.7	191.7	215.4	224.6
155°	173.1	177.9	191.7	210.6	216.6
157.5°	177.5	182.2	191.7	206.3	210.7
160°	180.5	184.2	191.7	204.2	206.7
162.5°	183.5	186.2	191.7	202.3	204.7
165°	186.8	189.2	191.7	199.3	201.7
167.5°	189.7	191.0	193.0	198.0	199.0
170°	191.7	193.0	193.0	198.0	198.0
172.5°	192.7	193.0	193.0	196.9	196.0
175°	194.2	194.2	193.0	195.5	195.5
177.5°	194.2	194.2	193.2	195.2	194.2
180°	194.2	194.2	194.2	194.2	194.2

(END OF REPORT)