

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: P564007

Luminaire Tested: **SQ4-PR1-050U-100D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564007  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-050U-100D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

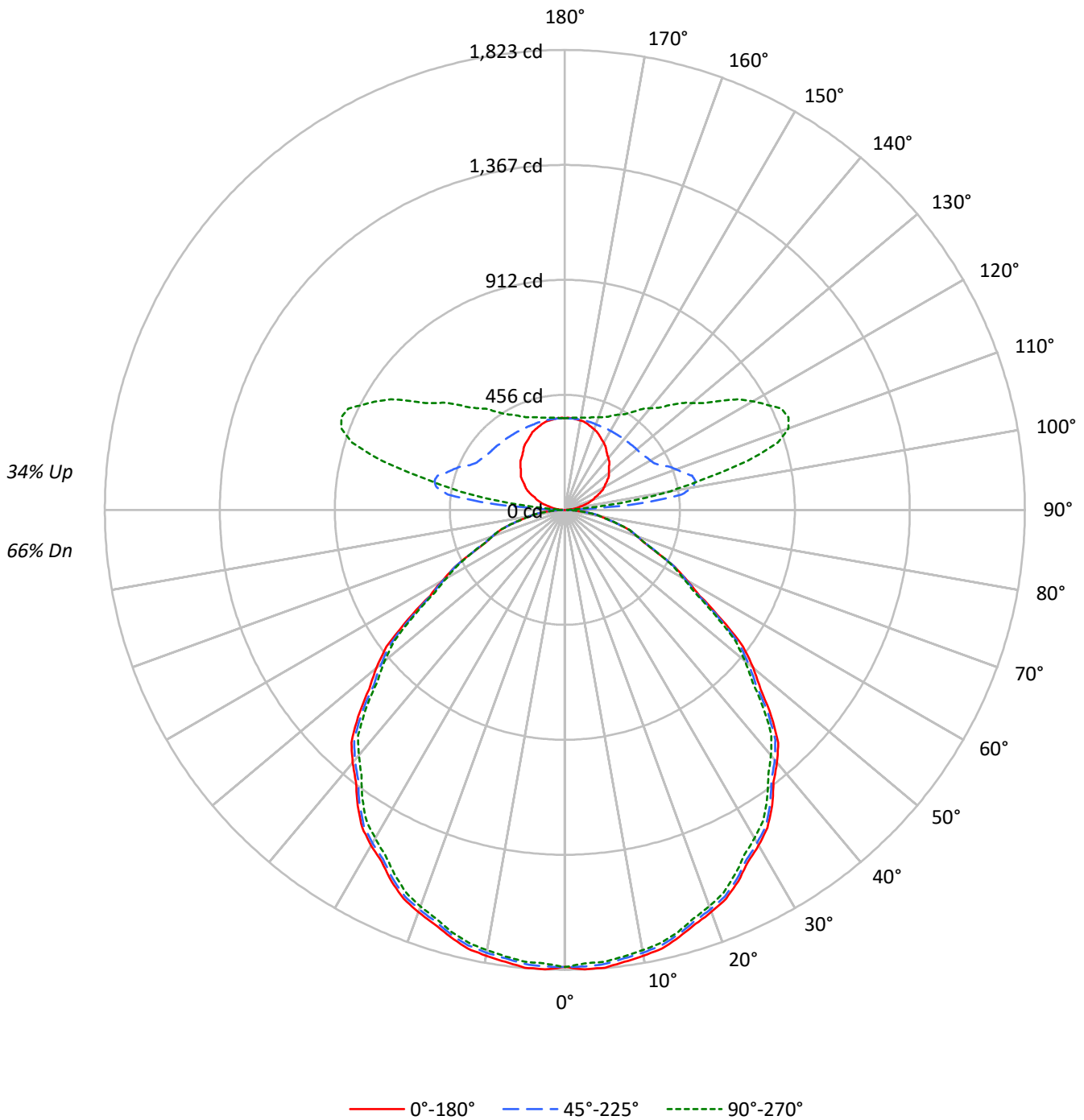
Lumens per Lamp: N/A  
Luminaire Lumens: 6908.7 lumens  
Efficiency: N/A  
Efficacy: 94.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 73.4  
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66				
1	102	97	94	90	95	92	88	85	81	79	76	72	70	68	63	62	60	56				
2	93	85	79	74	87	81	75	71	72	68	64	63	60	57	56	53	51	48				
3	85	76	68	62	80	71	65	60	64	58	54	56	52	49	50	47	44	41				
4	78	67	59	53	73	64	56	51	57	51	47	51	46	42	45	41	38	35				
5	72	60	52	46	67	57	50	44	51	45	40	46	41	37	40	37	34	31				
6	66	54	46	40	62	51	44	38	46	40	35	41	36	33	37	33	30	27				
7	61	49	41	35	58	47	39	34	42	36	31	38	33	29	34	30	26	24				
8	57	45	37	31	54	42	35	30	38	32	28	34	30	26	31	27	24	22				
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	29	24	21	19				
10	50	37	30	25	47	36	29	24	33	27	23	29	25	21	26	22	20	18				

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

	0°	45°	90°
0°	11145	11145	11145
5°	11245	11159	11101
10°	11210	11132	11074
15°	11161	11091	11032
20°	11105	11033	10951
25°	11026	10952	10825
30°	10907	10830	10675
35°	10747	10653	10500
40°	10502	10388	10200
45°	10073	9897	9693
50°	9319	9095	8915
55°	8134	7949	7782
60°	6854	6797	6663
65°	5928	5951	5906
70°	5445	5472	5472
75°	5231	5231	5266
80°	4920	4977	4920
85°	3966	4404	4404



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.4	2.5
10°-20°	490.2	7.1
20°-30°	739.5	10.7
30°-40°	881.1	12.8
40°-50°	868.6	12.6
50°-60°	663.9	9.6
60°-70°	410.8	5.9
70°-80°	233.3	3.4
80°-90°	72.4	1.0
90°-100°	174.8	2.5
100°-110°	474.9	6.9
110°-120°	488.2	7.1
120°-130°	390.4	5.7
130°-140°	306.7	4.4
140°-150°	235.2	3.4
150°-160°	169.1	2.4
160°-170°	103.4	1.5
170°-180°	34.8	0.5
0°-30°	1401.1	20.3
0°-40°	2282.1	33.0
0°-60°	3814.6	55.2
0°-90°	4531.1	65.6
90°-120°	1137.9	16.5
90°-150°	2070.2	30.0
90°-180°	2378.0	34.4
0°-180°	6908.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1812	1812	1812	1812	1812	
5°	1821	1802	1807	1801	1798	173
15°	1753	1734	1742	1735	1732	495
25°	1625	1605	1614	1597	1595	748
35°	1431	1414	1419	1400	1398	893
45°	1158	1143	1138	1117	1114	887
55°	758	746	741	729	726	680
65°	407	404	409	406	406	413
75°	220	220	220	222	222	232
85°	56	59	62	62	62	65
90°	1	5	8	10	10	4
95°	26	96	304	132	89	27
105°	84	131	522	795	748	90
115°	150	182	418	832	947	148
125°	206	235	378	637	752	184
135°	248	276	368	519	585	192
145°	287	308	363	441	474	180
155°	324	336	361	396	408	150
165°	351	356	362	377	378	99
175°	364	365	363	368	366	35
180°	364	364	364	364	364	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1812.0	1812.0	1812.0	1812.0	1812.0
2.5°	1823.2	1807.3	1812.0	1808.0	1799.5
5°	1821.3	1801.5	1807.3	1801.0	1797.9
7.5°	1807.3	1787.8	1793.6	1787.3	1785.4
10°	1794.8	1776.5	1782.3	1776.0	1773.0
12.5°	1781.1	1761.5	1768.6	1761.0	1758.0
15°	1752.7	1734.4	1741.7	1735.4	1732.4
17.5°	1721.5	1701.9	1709.3	1702.0	1698.0
20°	1696.5	1678.2	1685.6	1674.6	1673.1
22.5°	1669.0	1650.7	1658.1	1643.4	1643.1
25°	1624.7	1604.9	1613.8	1596.6	1595.0
27.5°	1571.9	1553.6	1561.0	1543.5	1541.7
30°	1535.7	1517.4	1524.8	1506.0	1503.0
32.5°	1494.5	1477.4	1483.6	1464.8	1463.0
35°	1431.2	1414.4	1418.7	1399.9	1398.4
37.5°	1359.1	1343.8	1346.3	1325.6	1324.1
40°	1307.9	1292.6	1293.8	1271.9	1270.4
42.5°	1251.7	1236.4	1235.1	1213.3	1211.7
45°	1158.0	1142.8	1137.8	1117.4	1114.3
47.5°	1051.3	1036.0	1026.6	1010.0	1007.9
50°	973.9	958.6	950.5	936.3	931.7
52.5°	890.2	875.0	868.1	855.2	850.6
55°	758.5	746.3	741.3	728.8	725.7
57.5°	633.3	625.1	623.7	611.5	610.2
60°	557.2	552.6	552.5	541.6	541.6
62.5°	492.2	488.9	491.3	484.1	482.9
65°	407.3	404.3	408.9	405.8	405.8
67.5°	340.2	340.2	343.0	341.8	341.8
70°	302.8	302.8	304.3	304.3	304.3
72.5°	269.1	267.8	271.9	271.8	270.6
75°	220.1	220.1	220.1	221.6	221.6
77.5°	171.4	171.7	172.9	172.6	171.4
80°	138.9	140.4	140.5	138.9	138.9
82.5°	106.4	108.0	108.0	107.7	106.4
85°	56.2	59.2	62.4	62.4	62.4
87.5°	16.5	22.0	26.6	27.1	25.8
90°	1.2	4.6	8.2	10.5	10.5
92.5°	10.5	47.9	83.1	35.7	30.2
95°	25.8	95.6	304.4	132.5	89.0
97.5°	42.6	105.6	466.7	363.1	255.0
100°	53.9	112.2	516.4	523.4	422.7
102.5°	65.1	118.9	529.5	647.4	558.5
105°	84.3	131.2	522.2	795.1	748.2
107.5°	104.2	145.7	492.0	871.4	884.5
110°	118.3	156.0	469.5	886.5	942.6

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	130.4	166.4	447.0	874.0	958.5
115°	149.9	181.9	418.0	831.6	947.2
117.5°	168.1	198.8	399.5	771.5	901.8
120°	180.3	210.1	391.1	731.2	860.6
122.5°	190.6	220.4	385.5	690.9	815.6
125°	206.1	234.7	378.2	637.2	751.7
127.5°	219.9	248.3	374.2	596.6	694.8
130°	228.3	255.8	372.3	571.1	659.2
132.5°	236.8	264.2	370.5	549.3	627.4
135°	248.2	275.7	367.7	519.0	585.4
137.5°	260.6	285.6	366.3	492.3	548.2
140°	268.1	292.2	365.3	475.4	525.7
142.5°	275.6	297.8	364.4	462.1	504.2
145°	286.9	307.5	363.0	441.0	474.2
147.5°	299.5	317.1	361.8	424.5	450.6
150°	307.9	322.8	361.8	415.0	435.6
152.5°	314.5	327.6	360.9	406.4	423.4
155°	324.3	335.8	360.6	396.0	407.5
157.5°	333.9	342.9	360.6	388.9	397.6
160°	339.6	347.6	360.6	384.2	391.1
162.5°	345.2	351.4	361.6	380.4	385.5
165°	351.3	355.8	361.8	377.1	378.2
167.5°	357.6	359.9	363.0	373.1	374.0
170°	359.5	361.8	363.0	371.2	371.2
172.5°	361.3	362.7	363.0	369.3	369.3
175°	364.1	365.3	363.0	367.6	366.5
177.5°	365.1	365.1	362.3	366.0	364.1
180°	364.1	364.1	364.1	364.1	364.1

(END OF REPORT)