

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: P564683

Luminaire Tested: **SQ4-PW1-050U-100D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564683  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PW1-050U-100D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

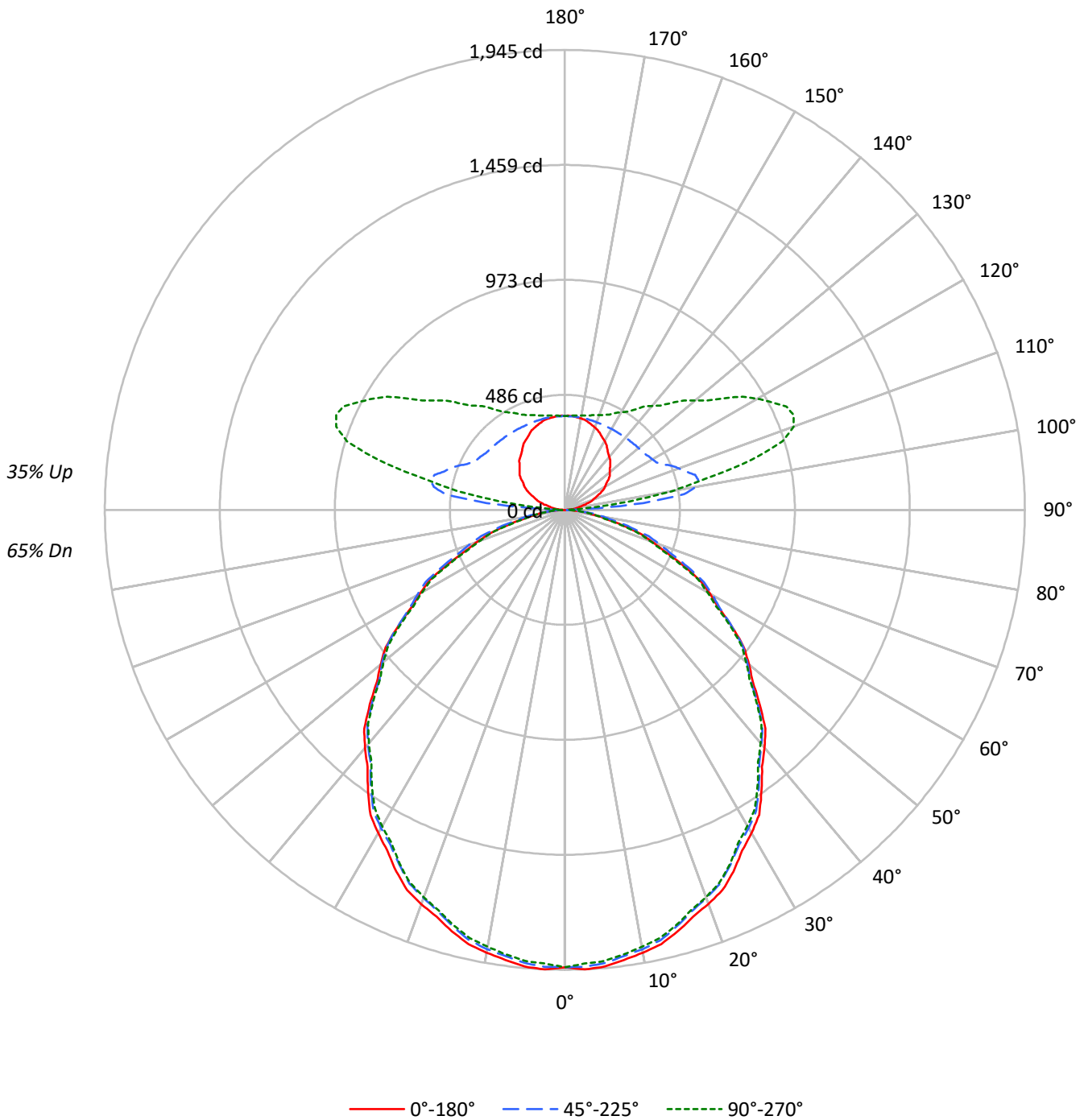
Lumens per Lamp: N/A  
Luminaire Lumens: 7518.8 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 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	0
RCR																		
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	65
1	101	97	93	90	95	91	88	85	81	78	76	71	69	68	62	61	60	55
2	92	85	79	73	87	80	75	70	71	67	63	63	59	57	55	53	50	47
3	84	75	67	61	79	71	64	59	63	58	53	56	51	48	49	46	43	40
4	77	66	58	52	72	63	55	50	56	50	45	50	45	41	44	40	37	34
5	71	59	51	45	67	56	48	43	50	44	39	45	40	36	39	36	32	30
6	66	53	45	39	61	50	43	37	45	39	34	40	35	31	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	25	23
8	56	44	36	30	53	42	34	29	38	31	27	34	29	25	30	26	23	21
9	53	40	32	27	49	38	31	26	34	29	24	31	26	22	28	24	21	19
10	49	37	29	24	46	35	28	24	32	26	22	29	24	20	26	22	19	17

**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	2.4
10°-20°	514.2	6.8
20°-30°	762.8	10.1
30°-40°	892.5	11.9
40°-50°	888.5	11.8
50°-60°	767.3	10.2
60°-70°	552.3	7.3
70°-80°	289.6	3.9
80°-90°	73.3	1.0
90°-100°	190.9	2.5
100°-110°	518.5	6.9
110°-120°	533.1	7.1
120°-130°	426.2	5.7
130°-140°	334.9	4.5
140°-150°	256.8	3.4
150°-160°	184.7	2.5
160°-170°	112.9	1.5
170°-180°	38.1	0.5
0°-30°	1459.1	19.4
0°-40°	2351.6	31.3
0°-60°	4007.4	53.3
0°-90°	4922.6	65.5
90°-120°	1242.5	16.5
90°-150°	2260.4	30.1
90°-180°	2596.0	34.5
0°-180°	7518.8	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	5	9	12	12	3
95°	28	104	332	145	97	30
105°	92	143	570	868	817	98
115°	164	199	456	908	1034	161
125°	225	256	413	696	821	201
135°	271	301	402	567	639	210
145°	313	336	396	482	518	197
155°	354	367	394	432	445	163
165°	384	389	395	412	413	108
175°	398	399	396	401	400	38
180°	398	398	398	398	398	

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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	21.2	27.7	28.2	29.6
90°	1.3	5.0	8.9	11.5	11.5
92.5°	11.5	52.3	90.8	39.0	33.0
95°	28.1	104.4	332.4	144.7	97.2
97.5°	46.5	115.3	509.6	396.5	278.5
100°	58.8	122.6	563.8	571.5	461.5
102.5°	71.1	129.8	578.1	706.9	609.8
105°	92.1	143.3	570.2	868.2	817.0
107.5°	113.8	159.0	537.2	951.5	965.8
110°	129.1	170.4	512.7	967.9	1029.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	142.4	181.7	488.1	954.3	1046.6
115°	163.6	198.7	456.4	908.1	1034.3
117.5°	183.6	217.1	436.2	842.4	984.7
120°	196.9	229.4	427.0	798.4	939.7
122.5°	208.1	240.6	420.9	754.3	890.6
125°	225.0	256.3	413.0	695.8	820.8
127.5°	240.1	271.1	408.6	651.4	758.7
130°	249.3	279.3	406.6	623.5	719.8
132.5°	258.5	288.5	404.5	599.8	685.0
135°	271.0	301.0	401.5	566.7	639.3
137.5°	284.6	311.8	399.9	537.6	598.6
140°	292.8	319.0	398.9	519.0	574.0
142.5°	301.0	325.2	397.9	504.5	550.5
145°	313.2	335.7	396.3	481.5	517.8
147.5°	327.0	346.3	395.1	463.5	492.0
150°	336.2	352.5	395.1	453.1	475.6
152.5°	343.4	357.7	394.0	443.8	462.3
155°	354.1	366.6	393.8	432.4	444.9
157.5°	364.6	374.4	393.8	424.7	434.2
160°	370.8	379.5	393.8	419.5	427.0
162.5°	376.9	383.7	394.8	415.4	420.9
165°	383.6	388.6	395.1	411.7	413.0
167.5°	390.5	393.0	396.3	407.4	408.4
170°	392.5	395.0	396.3	405.3	405.3
172.5°	394.5	396.0	396.3	403.2	403.2
175°	397.6	398.9	396.3	401.4	400.2
177.5°	398.6	398.6	395.6	399.6	397.6
180°	397.6	397.6	397.6	397.6	397.6

(END OF REPORT)