

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: P564777

Luminaire Tested: **SQ4-PW1-075U-100D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564777  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PW1-075U-100D-935-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17649.2 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

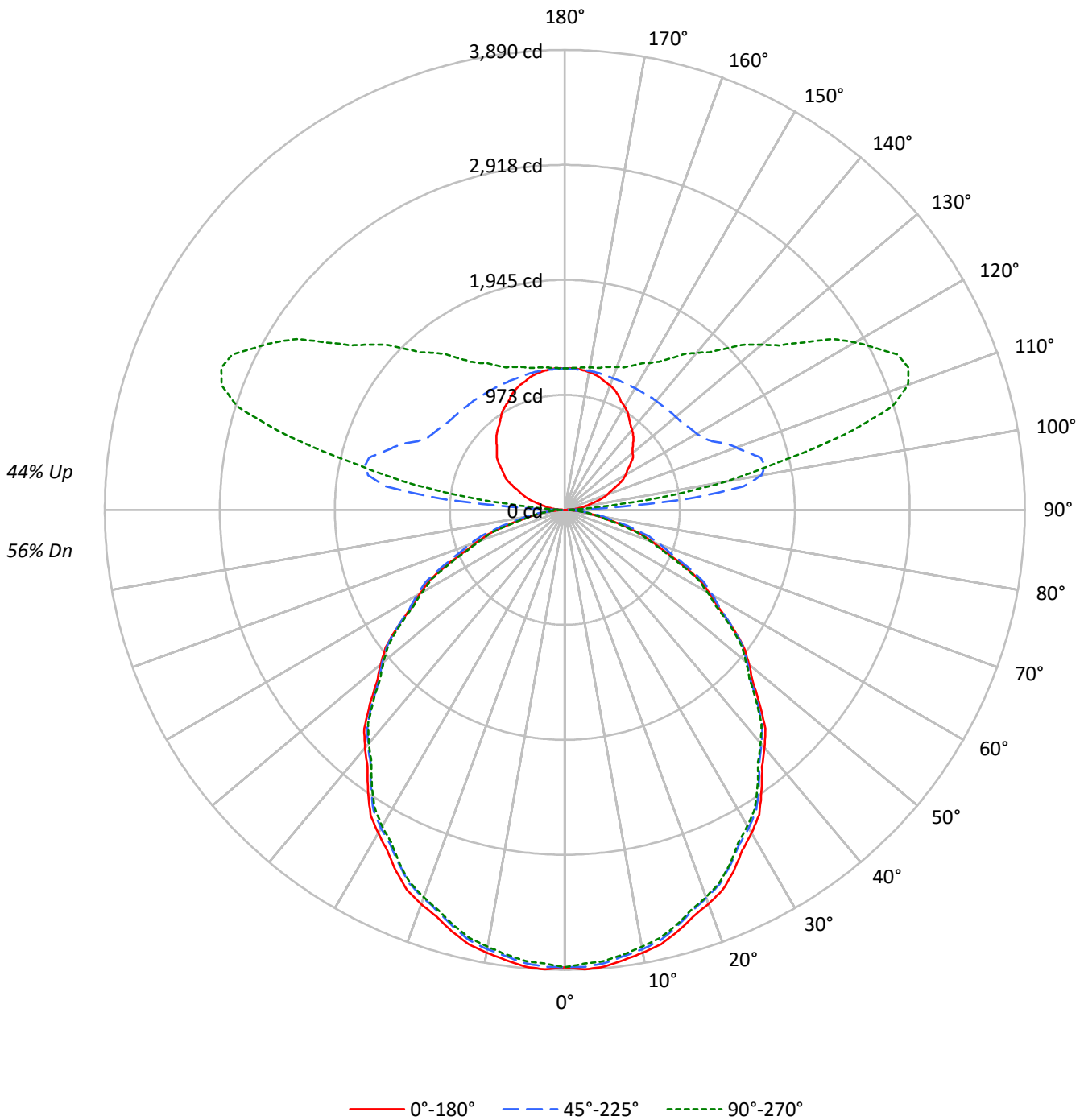
Input Watts (W): 162.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	109	109	109	109	101	101	101	101	87	87	87	73	73	73	61	61	61	56
1	99	95	91	88	92	88	85	82	76	74	71	65	63	61	55	53	52	47
2	90	83	77	72	84	77	72	67	67	63	59	57	54	51	48	46	44	40
3	83	73	66	60	76	68	62	56	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	60	53	48	52	47	43	45	41	37	38	35	32	29
5	69	58	49	43	64	54	47	41	47	41	37	40	36	32	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	28	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	29	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	24	21	18	16
10	48	36	28	24	44	34	27	22	30	24	20	26	21	18	22	19	16	14

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

	0°	45°	90°
0°	11897	11897	11897
5°	11974	11879	11827
10°	11878	11782	11718
15°	11752	11622	11579
20°	11612	11433	11411
25°	11450	11242	11207
30°	11208	11038	10966
35°	10890	10736	10672
40°	10550	10385	10345
45°	10139	10006	9962
50°	9719	9637	9572
55°	9265	9265	9119
60°	8700	8868	8553
65°	7962	8358	7763
70°	7018	7693	6835
75°	5994	6885	5832
80°	4647	5795	4707
85°	3006	4450	3970



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	364.3	2.1
10°-20°	1028.4	5.8
20°-30°	1525.5	8.6
30°-40°	1785.0	10.1
40°-50°	1777.0	10.1
50°-60°	1534.5	8.7
60°-70°	1104.6	6.3
70°-80°	579.3	3.3
80°-90°	146.7	0.8
90°-100°	565.0	3.2
100°-110°	1554.4	8.8
110°-120°	1604.4	9.1
120°-130°	1285.5	7.3
130°-140°	1009.6	5.7
140°-150°	773.7	4.4
150°-160°	556.3	3.2
160°-170°	340.2	1.9
170°-180°	114.7	0.6
0°-30°	2918.2	16.5
0°-40°	4703.2	26.6
0°-60°	8014.8	45.4
0°-90°	9845.4	55.8
90°-120°	3723.8	21.1
90°-150°	6792.7	38.5
90°-180°	7804.0	44.2
0°-180°	17649.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3868	3868	3868	3868	3868	
5°	3879	3835	3848	3838	3831	367
15°	3691	3644	3650	3643	3637	1040
25°	3374	3318	3313	3293	3303	1552
35°	2900	2860	2860	2832	2842	1813
45°	2331	2311	2301	2294	2290	1799
55°	1728	1725	1728	1704	1701	1542
65°	1094	1127	1149	1104	1067	1084
75°	504	551	579	541	491	541
85°	85	112	126	119	112	112
90°	2	10	18	23	23	9
95°	84	308	999	427	273	89
105°	278	427	1713	2608	2434	293
115°	492	599	1374	2736	3104	485
125°	678	773	1246	2108	2470	605
135°	818	908	1211	1705	1929	631
145°	946	1010	1193	1453	1565	593
155°	1070	1105	1185	1306	1343	492
165°	1157	1172	1190	1239	1246	326
175°	1198	1200	1193	1208	1206	114
180°	1198	1198	1198	1198	1198	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3868.4	3868.4	3868.4	3868.4	3868.4
2.5°	3890.2	3858.2	3868.4	3859.8	3841.2
5°	3878.6	3835.3	3848.0	3837.6	3830.9
7.5°	3839.1	3799.1	3808.4	3797.4	3793.4
10°	3803.7	3763.7	3773.0	3759.2	3752.5
12.5°	3762.8	3720.1	3729.4	3715.6	3711.6
15°	3691.2	3644.5	3650.3	3643.3	3636.7
17.5°	3608.0	3560.7	3561.7	3550.7	3549.4
20°	3548.0	3498.1	3493.5	3480.0	3486.7
22.5°	3482.6	3429.9	3425.3	3406.5	3415.8
25°	3374.2	3317.6	3312.9	3292.6	3302.6
27.5°	3248.8	3192.8	3192.9	3164.5	3175.2
30°	3156.1	3102.8	3108.4	3074.6	3087.9
32.5°	3057.9	3009.9	3012.9	2979.2	2992.5
35°	2900.5	2860.5	2859.6	2832.5	2842.5
37.5°	2739.6	2704.3	2698.7	2683.1	2685.7
40°	2627.8	2597.8	2586.9	2576.7	2576.7
42.5°	2510.6	2483.2	2472.4	2464.8	2462.2
45°	2331.3	2311.3	2300.6	2293.7	2290.4
47.5°	2154.0	2135.4	2126.1	2121.3	2117.9
50°	2031.3	2018.0	2014.3	2004.0	2000.7
52.5°	1908.6	1900.7	1897.1	1884.0	1880.7
55°	1728.0	1724.7	1728.0	1704.1	1700.7
57.5°	1539.9	1545.2	1556.2	1524.0	1516.0
60°	1414.4	1427.8	1441.7	1403.9	1390.6
62.5°	1286.3	1307.6	1327.2	1283.8	1265.2
65°	1094.1	1127.4	1148.6	1103.5	1066.8
67.5°	908.7	950.0	975.5	926.8	885.5
70°	780.5	827.2	855.5	806.7	760.1
72.5°	668.7	720.7	743.7	697.6	651.0
75°	504.4	551.1	579.4	540.8	490.8
77.5°	357.9	401.9	425.4	391.7	350.4
80°	262.4	309.1	327.2	299.2	265.8
82.5°	186.1	224.8	237.2	220.3	197.7
85°	85.2	111.9	126.1	119.1	112.5
87.5°	22.3	42.5	55.4	56.5	59.1
90°	2.5	10.0	17.8	22.9	22.9
92.5°	35.2	150.3	260.5	100.0	82.1
95°	84.1	308.4	999.1	427.2	272.7
97.5°	137.1	342.0	1524.6	1174.7	828.8
100°	175.9	362.8	1689.8	1705.6	1391.6
102.5°	212.6	387.5	1732.6	2116.0	1827.9
105°	277.8	427.3	1712.7	2608.5	2434.0
107.5°	340.0	476.6	1615.4	2849.6	2901.5
110°	384.9	509.5	1542.0	2909.6	3089.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	425.6	546.3	1468.6	2871.0	3144.1
115°	491.9	599.1	1373.8	2735.5	3104.3
117.5°	555.1	653.8	1313.6	2545.5	2962.6
120°	593.9	688.6	1287.1	2403.0	2834.2
122.5°	628.5	723.2	1268.8	2278.2	2687.4
125°	678.0	772.7	1246.3	2108.4	2469.7
127.5°	724.9	815.1	1231.5	1966.7	2283.7
130°	749.3	841.5	1223.4	1882.4	2171.5
132.5°	777.9	870.1	1217.3	1808.4	2069.6
135°	818.1	907.9	1210.6	1705.1	1929.4
137.5°	855.9	939.1	1205.0	1621.6	1806.5
140°	884.4	961.7	1203.0	1566.2	1733.1
142.5°	908.9	980.1	1198.9	1516.7	1659.7
145°	945.6	1010.4	1192.8	1452.8	1564.9
147.5°	984.8	1040.6	1189.7	1396.2	1485.9
150°	1009.3	1059.1	1187.7	1365.2	1434.9
152.5°	1031.7	1077.6	1185.7	1338.4	1396.2
155°	1070.5	1105.4	1185.2	1305.8	1343.2
157.5°	1098.5	1126.9	1185.2	1279.0	1304.9
160°	1118.9	1141.3	1185.2	1264.6	1284.6
162.5°	1135.2	1153.6	1187.2	1252.3	1268.2
165°	1157.1	1172.1	1190.3	1238.8	1246.3
167.5°	1172.4	1183.9	1192.8	1227.5	1229.5
170°	1182.6	1190.1	1192.8	1223.4	1223.4
172.5°	1190.8	1194.3	1192.8	1217.2	1215.2
175°	1197.9	1200.4	1192.8	1208.0	1205.5
177.5°	1199.9	1199.9	1191.8	1203.9	1199.9
180°	1197.9	1197.9	1197.9	1197.9	1197.9

(END OF REPORT)