

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: P563461

Luminaire Tested: **SQ4-PP3-075U-125D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563461  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-075U-125D-940-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

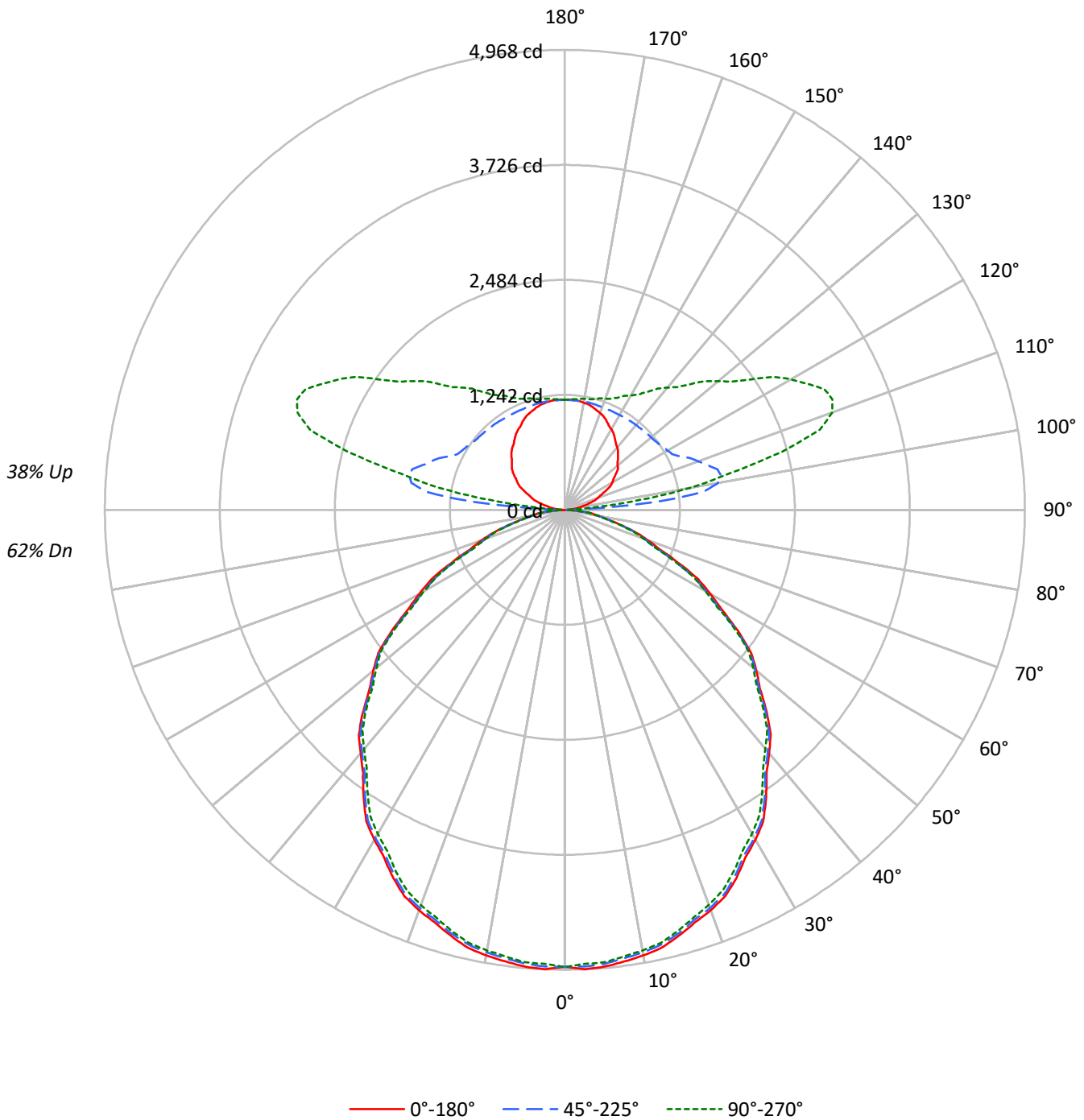
Lumens per Lamp: N/A  
Luminaire Lumens: 20401.5 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 194.8  
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	93	89	94	90	87	84	79	77	75	69	67	66	60	58	57	53
2	92	84	78	73	86	79	74	69	70	66	62	61	58	55	53	51	49	45
3	84	74	67	61	78	70	63	58	62	57	52	54	50	47	47	44	42	38
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	39	36	33
5	71	59	51	45	66	56	48	43	49	43	39	43	39	35	38	34	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	31	34	31	28	25
7	60	48	40	34	56	45	38	33	40	34	30	36	31	27	31	28	25	22
8	56	44	36	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18
10	49	37	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16

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

	0°	45°	90°
0°	15181	15181	15181
5°	15293	15199	15146
10°	15267	15159	15091
15°	15166	15083	15001
20°	15065	14980	14867
25°	14886	14783	14637
30°	14611	14534	14350
35°	14229	14131	13952
40°	13773	13687	13530
45°	13398	13303	13171
50°	12916	12833	12709
55°	12248	12085	11993
60°	11150	10830	10777
65°	9823	9414	9382
70°	8480	8130	8130
75°	7299	7197	7094
80°	6436	6512	6360
85°	5039	5494	5494



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	466.8	2.3
10°-20°	1332.8	6.5
20°-30°	1996.4	9.8
30°-40°	2341.6	11.5
40°-50°	2348.9	11.5
50°-60°	2003.8	9.8
60°-70°	1306.8	6.4
70°-80°	655.6	3.2
80°-90°	184.5	0.9
90°-100°	562.1	2.8
100°-110°	1546.5	7.6
110°-120°	1596.3	7.8
120°-130°	1279.0	6.3
130°-140°	1004.5	4.9
140°-150°	769.8	3.8
150°-160°	553.5	2.7
160°-170°	338.4	1.7
170°-180°	114.1	0.6
0°-30°	3796.0	18.6
0°-40°	6137.6	30.1
0°-60°	10490.4	51.4
0°-90°	12637.3	61.9
90°-120°	3704.9	18.2
90°-150°	6758.2	33.1
90°-180°	7764.0	38.1
0°-180°	20401.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4936	4936	4936	4936	4936	
5°	4954	4907	4923	4906	4906	470
15°	4763	4717	4737	4720	4711	1344
25°	4387	4336	4357	4318	4313	2017
35°	3790	3752	3764	3721	3716	2367
45°	3080	3059	3059	3028	3028	2372
55°	2284	2276	2254	2241	2237	2030
65°	1350	1324	1294	1285	1289	1347
75°	614	614	606	601	597	666
85°	143	156	156	156	156	168
90°	2	10	18	23	23	11
95°	84	307	994	425	271	88
105°	276	425	1704	2595	2422	291
115°	489	596	1367	2722	3089	483
125°	674	769	1240	2098	2457	602
135°	814	903	1204	1696	1920	628
145°	941	1005	1187	1445	1557	590
155°	1065	1100	1179	1299	1336	489
165°	1151	1166	1184	1233	1240	324
175°	1192	1194	1187	1202	1199	113
180°	1192	1192	1192	1192	1192	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4936.3	4936.3	4936.3	4936.3	4936.3
2.5°	4967.5	4926.9	4936.3	4929.0	4908.7
5°	4953.7	4907.1	4923.4	4906.1	4906.1
7.5°	4919.9	4869.1	4885.3	4868.0	4867.1
10°	4888.8	4838.0	4854.1	4836.7	4832.5
12.5°	4843.8	4793.0	4812.6	4791.8	4791.0
15°	4763.3	4716.8	4737.3	4719.8	4711.4
17.5°	4672.4	4621.7	4646.5	4622.2	4618.8
20°	4603.2	4552.5	4577.3	4542.7	4542.7
22.5°	4520.2	4469.4	4497.7	4452.7	4452.7
25°	4386.9	4336.1	4356.6	4317.6	4313.4
27.5°	4228.6	4178.6	4200.0	4155.9	4155.0
30°	4114.3	4067.8	4092.7	4045.0	4040.8
32.5°	3989.7	3946.6	3964.7	3917.0	3912.7
35°	3789.9	3751.8	3763.9	3720.6	3716.3
37.5°	3579.6	3540.7	3554.5	3517.3	3515.6
40°	3430.8	3405.4	3409.2	3378.7	3370.2
42.5°	3292.3	3263.6	3267.2	3236.9	3235.2
45°	3080.4	3059.2	3058.7	3028.4	3028.4
47.5°	2855.4	2839.3	2834.6	2809.5	2808.7
50°	2699.6	2686.9	2682.3	2660.6	2656.4
52.5°	2537.0	2531.0	2516.2	2498.0	2497.2
55°	2284.3	2275.8	2254.0	2240.9	2236.7
57.5°	2010.0	1993.1	1968.5	1949.5	1952.9
60°	1812.7	1795.8	1760.8	1752.2	1752.2
62.5°	1622.4	1602.1	1567.0	1555.0	1561.8
65°	1349.8	1324.4	1293.6	1285.0	1289.2
67.5°	1102.4	1079.5	1046.1	1046.0	1042.6
70°	943.1	930.5	904.2	904.2	904.2
72.5°	801.2	795.3	776.1	776.1	772.7
75°	614.3	614.3	605.7	601.3	597.0
77.5°	460.3	462.0	457.7	453.2	445.6
80°	363.4	371.9	367.7	363.3	359.1
82.5°	273.4	281.9	281.2	273.4	272.6
85°	142.8	155.5	155.7	155.7	155.7
87.5°	38.6	53.6	58.9	60.0	63.4
90°	2.5	10.0	17.8	22.8	22.8
92.5°	35.0	149.5	259.2	99.5	81.7
95°	83.7	306.8	994.0	425.1	271.3
97.5°	136.4	340.2	1516.9	1168.8	824.6
100°	175.0	360.9	1681.2	1696.9	1384.5
102.5°	211.5	385.5	1723.8	2105.3	1818.7
105°	276.4	425.2	1704.0	2595.2	2421.7
107.5°	338.3	474.1	1607.2	2835.2	2886.7
110°	382.9	506.9	1534.1	2894.8	3073.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	423.5	543.5	1461.1	2856.4	3128.1
115°	489.4	596.0	1366.8	2721.6	3088.6
117.5°	552.3	650.5	1306.9	2532.5	2947.6
120°	590.8	685.1	1280.6	2390.8	2819.8
122.5°	625.3	719.5	1262.3	2266.6	2673.7
125°	674.5	768.7	1240.0	2097.7	2457.2
127.5°	721.2	810.9	1225.3	1956.7	2272.1
130°	745.5	837.3	1217.2	1872.9	2160.5
132.5°	773.9	865.7	1211.1	1799.2	2059.1
135°	814.0	903.2	1204.5	1696.4	1919.6
137.5°	851.5	934.3	1198.9	1613.4	1797.4
140°	879.9	956.8	1196.9	1558.2	1724.3
142.5°	904.3	975.2	1192.8	1509.0	1651.3
145°	940.8	1005.2	1186.7	1445.4	1557.0
147.5°	979.8	1035.4	1183.7	1389.1	1478.4
150°	1004.2	1053.8	1181.7	1358.2	1427.6
152.5°	1026.5	1072.1	1179.6	1331.6	1389.1
155°	1065.0	1099.7	1179.1	1299.2	1336.4
157.5°	1092.9	1121.2	1179.1	1272.5	1298.3
160°	1113.2	1135.5	1179.1	1258.2	1278.0
162.5°	1129.4	1147.8	1181.2	1245.9	1261.8
165°	1151.2	1166.1	1184.2	1232.6	1240.0
167.5°	1166.5	1177.9	1186.7	1221.3	1223.3
170°	1176.6	1184.0	1186.7	1217.2	1217.2
172.5°	1184.7	1188.2	1186.7	1211.0	1209.1
175°	1191.8	1194.3	1186.7	1201.9	1199.4
177.5°	1193.8	1193.8	1185.7	1197.8	1193.8
180°	1191.8	1191.8	1191.8	1191.8	1191.8

(END OF REPORT)