

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: P563380

Luminaire Tested: **SQ4-PP3-075U-050D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563380  
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-050D-840-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

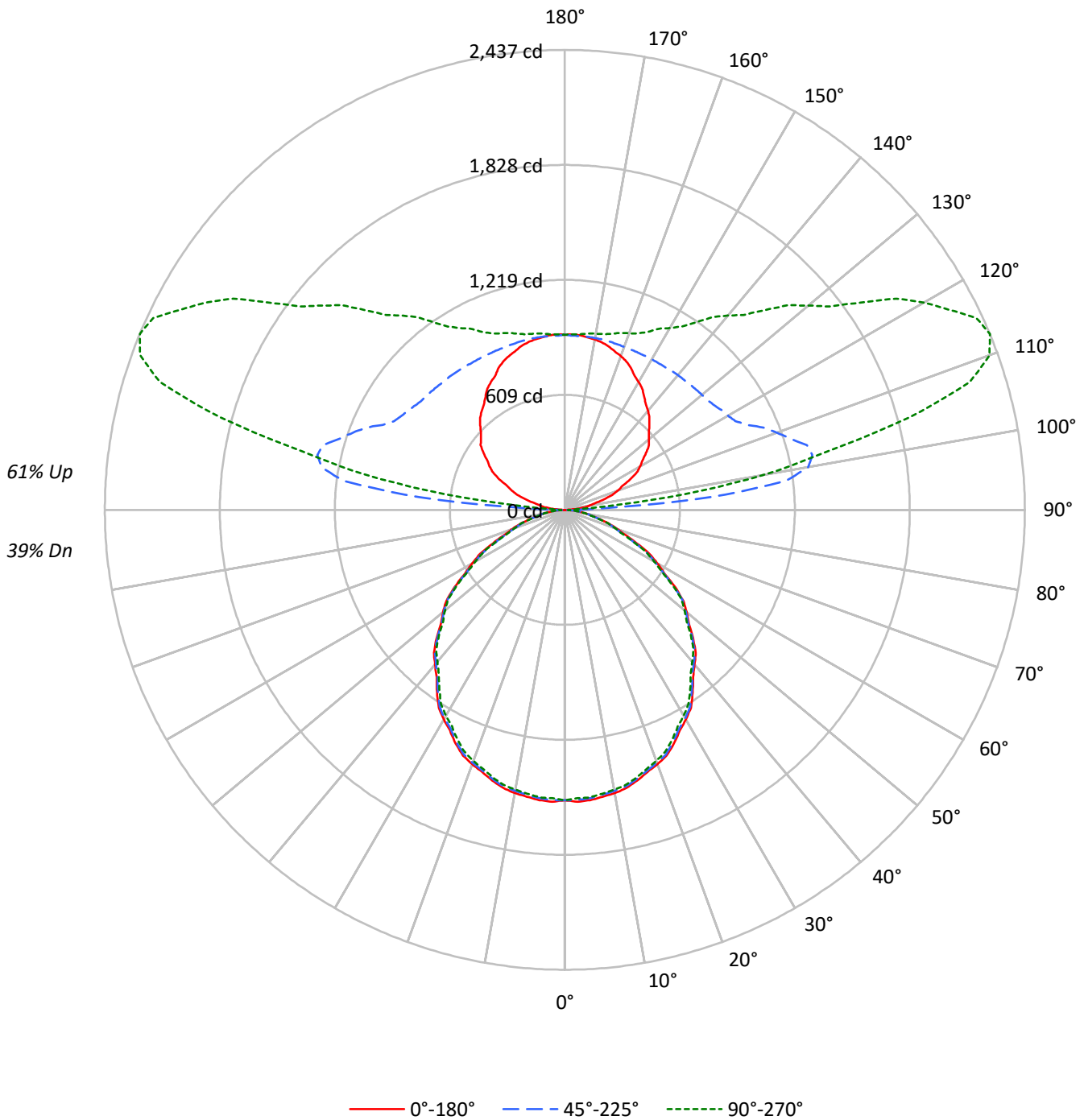
Lumens per Lamp: N/A  
Luminaire Lumens: 9988.1 lumens  
Efficiency: N/A  
Efficacy: 139.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 71.8  
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



TEST NUMBER: P563380  
CATALOG NUMBER: SQ4-PP3-075U-050D-840-1D-UNV-STD-W-8

### Luminous Intensity Polar Plot





TEST NUMBER: P563380

CATALOG NUMBER: SQ4-PP3-075U-050D-840-1D-UNV-STD-W-8

**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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	40	34
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	33	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	32	30	29	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	42	60	51	44	39	42	37	33	34	30	27	26	24	22	18
6	61	50	42	36	56	46	39	34	38	33	29	30	27	24	24	21	19	16
7	57	45	37	32	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	13
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10

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

	0°	45°	90°
0°	7098	7098	7098
5°	7150	7106	7081
10°	7137	7087	7055
15°	7090	7052	7013
20°	7044	7004	6951
25°	6960	6912	6843
30°	6831	6795	6709
35°	6652	6607	6523
40°	6439	6399	6325
45°	6264	6220	6158
50°	6038	6000	5942
55°	5726	5650	5607
60°	5213	5063	5038
65°	4592	4401	4386
70°	3965	3801	3801
75°	3413	3365	3317
80°	3010	3044	2973
85°	2355	2567	2567



TEST NUMBER: P563380

CATALOG NUMBER: SQ4-PP3-075U-050D-840-1D-UNV-STD-W-8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.5	1.5
10°-20°	415.4	4.2
20°-30°	622.2	6.2
30°-40°	729.9	7.3
40°-50°	732.1	7.3
50°-60°	624.6	6.3
60°-70°	407.3	4.1
70°-80°	204.4	2.0
80°-90°	58.9	0.6
90°-100°	437.9	4.4
100°-110°	1204.6	12.1
110°-120°	1243.4	12.4
120°-130°	996.2	10.0
130°-140°	782.5	7.8
140°-150°	599.6	6.0
150°-160°	431.1	4.3
160°-170°	263.6	2.6
170°-180°	88.9	0.9
0°-30°	1183.1	11.8
0°-40°	1913.0	19.2
0°-60°	3269.7	32.7
0°-90°	3940.3	39.4
90°-120°	2885.9	28.9
90°-150°	5264.2	52.7
90°-180°	6048.0	60.6
0°-180°	9988.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1539	1539	1539	1539	1539	
5°	1544	1530	1534	1529	1529	147
15°	1485	1470	1477	1471	1468	419
25°	1367	1352	1358	1346	1344	629
35°	1181	1169	1173	1160	1158	738
45°	960	954	953	944	944	739
55°	712	709	702	698	697	633
65°	421	413	403	400	402	420
75°	192	192	189	187	186	208
85°	44	48	48	48	48	52
90°	2	8	14	18	18	6
95°	65	239	774	331	211	69
105°	215	331	1327	2022	1886	227
115°	381	464	1065	2120	2406	376
125°	525	599	966	1634	1914	469
135°	634	704	938	1321	1495	489
145°	733	783	924	1126	1213	460
155°	830	857	918	1012	1041	381
165°	897	908	922	960	966	253
175°	928	930	924	936	934	88
180°	928	928	928	928	928	



TEST NUMBER: P563380

CATALOG NUMBER: SQ4-PP3-075U-050D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1538.6	1538.6	1538.6	1538.6	1538.6
2.5°	1548.3	1535.6	1538.6	1536.3	1530.0
5°	1544.0	1529.5	1534.5	1529.1	1529.1
7.5°	1533.5	1517.6	1522.7	1517.3	1517.0
10°	1523.7	1507.9	1513.0	1507.5	1506.2
12.5°	1509.7	1493.9	1500.0	1493.5	1493.3
15°	1484.6	1470.1	1476.6	1471.1	1468.5
17.5°	1456.3	1440.5	1448.2	1440.7	1439.6
20°	1434.8	1418.9	1426.7	1415.9	1415.9
22.5°	1408.9	1393.0	1401.8	1387.8	1387.8
25°	1367.3	1351.5	1357.9	1345.7	1344.4
27.5°	1318.0	1302.4	1309.1	1295.3	1295.1
30°	1282.4	1267.9	1275.6	1260.8	1259.5
32.5°	1243.5	1230.1	1235.7	1220.9	1219.5
35°	1181.2	1169.4	1173.2	1159.6	1158.3
37.5°	1115.7	1103.6	1107.9	1096.3	1095.7
40°	1069.3	1061.4	1062.6	1053.1	1050.4
42.5°	1026.2	1017.2	1018.3	1008.9	1008.4
45°	960.1	953.5	953.4	943.9	943.9
47.5°	890.0	885.0	883.5	875.7	875.4
50°	841.4	837.5	836.0	829.3	827.9
52.5°	790.7	788.9	784.3	778.6	778.3
55°	712.0	709.3	702.5	698.5	697.1
57.5°	626.5	621.2	613.5	607.6	608.7
60°	565.0	559.7	548.8	546.1	546.1
62.5°	505.7	499.3	488.4	484.7	486.8
65°	420.7	412.8	403.2	400.5	401.8
67.5°	343.6	336.5	326.1	326.0	325.0
70°	294.0	290.0	281.8	281.8	281.8
72.5°	249.7	247.9	241.9	241.9	240.8
75°	191.5	191.5	188.8	187.4	186.1
77.5°	143.5	144.0	142.7	141.3	138.9
80°	113.3	115.9	114.6	113.2	111.9
82.5°	85.2	87.9	87.6	85.2	85.0
85°	44.5	48.5	48.5	48.5	48.5
87.5°	12.3	17.6	20.0	20.8	21.9
90°	2.0	7.8	13.8	17.8	17.8
92.5°	27.3	116.5	201.9	77.5	63.6
95°	65.2	239.0	774.3	331.1	211.3
97.5°	106.3	265.0	1181.6	910.4	642.3
100°	136.3	281.1	1309.6	1321.8	1078.5
102.5°	164.7	300.3	1342.7	1639.9	1416.6
105°	215.3	331.2	1327.3	2021.5	1886.3
107.5°	263.5	369.3	1251.9	2208.4	2248.6
110°	298.3	394.8	1195.0	2254.9	2394.0



TEST NUMBER: P563380

CATALOG NUMBER: SQ4-PP3-075U-050D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	329.9	423.3	1138.1	2224.9	2436.6
115°	381.2	464.3	1064.6	2120.0	2405.8
117.5°	430.2	506.7	1018.0	1972.7	2296.0
120°	460.2	533.6	997.5	1862.3	2196.4
122.5°	487.1	560.5	983.3	1765.5	2082.7
125°	525.4	598.8	965.9	1633.9	1914.0
127.5°	561.7	631.7	954.4	1524.1	1769.8
130°	580.7	652.2	948.1	1458.8	1682.9
132.5°	602.8	674.3	943.4	1401.5	1603.9
135°	634.0	703.6	938.2	1321.4	1495.2
137.5°	663.3	727.8	933.9	1256.7	1400.0
140°	685.4	745.3	932.3	1213.7	1343.1
142.5°	704.4	759.6	929.1	1175.4	1286.3
145°	732.8	783.0	924.4	1125.9	1212.8
147.5°	763.2	806.5	922.0	1082.0	1151.5
150°	782.2	820.8	920.4	1058.0	1112.0
152.5°	799.6	835.1	918.9	1037.2	1082.0
155°	829.6	856.6	918.5	1012.0	1040.9
157.5°	851.3	873.3	918.5	991.2	1011.3
160°	867.1	884.5	918.5	980.1	995.5
162.5°	879.8	894.0	920.1	970.5	982.9
165°	896.7	908.3	922.4	960.1	965.9
167.5°	908.6	917.5	924.4	951.3	952.8
170°	916.5	922.3	924.4	948.1	948.1
172.5°	922.8	925.5	924.4	943.3	941.8
175°	928.3	930.3	924.4	936.2	934.3
177.5°	929.9	929.9	923.6	933.0	929.9
180°	928.3	928.3	928.3	928.3	928.3

(END OF REPORT)