

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: P565035

Luminaire Tested: **SQ4-PW1-125U-075D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565035  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PW1-125U-075D-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

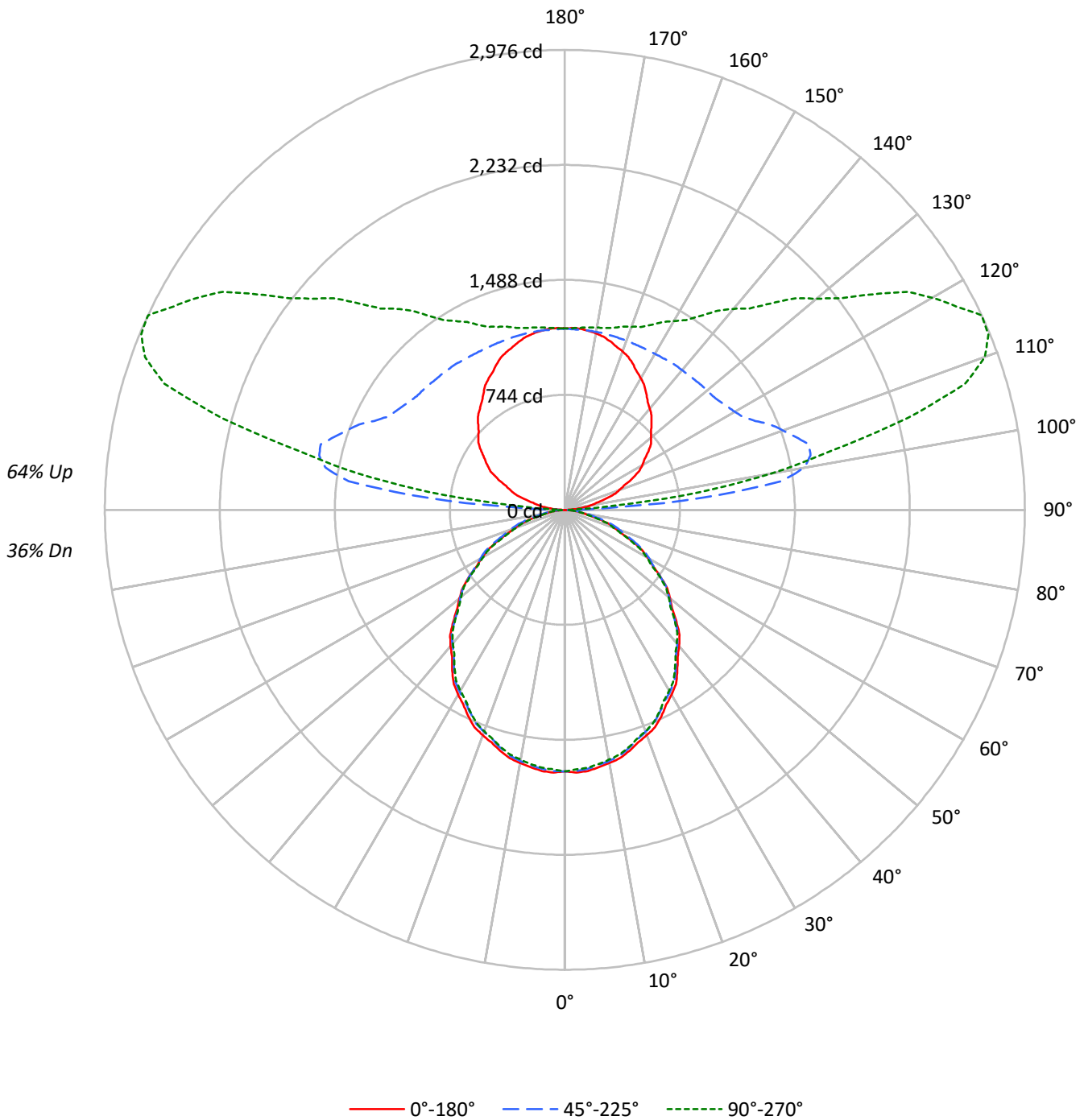
Lumens per Lamp: N/A  
Luminaire Lumens: 11882.7 lumens  
Efficiency: N/A  
Efficacy: 135.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 87.9  
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	32	31	26
3	79	70	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	16
6	61	49	41	35	55	45	38	33	37	31	28	29	25	23	22	19	18	14
7	56	44	36	31	51	40	34	29	33	28	24	26	23	20	20	17	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	18	16	14	11
9	48	36	29	24	44	33	27	22	28	23	19	22	18	16	17	14	13	10
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	16	13	11	9

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

	0°	45°	90°
0°	10408	10408	10408
5°	10476	10393	10347
10°	10392	10309	10252
15°	10282	10168	10130
20°	10159	10003	9983
25°	10017	9835	9805
30°	9805	9657	9594
35°	9527	9393	9337
40°	9230	9086	9051
45°	8871	8754	8715
50°	8503	8432	8375
55°	8106	8106	7978
60°	7611	7759	7483
65°	6966	7312	6792
70°	6140	6730	5980
75°	5245	6024	5102
80°	4066	5069	4119
85°	2632	3896	3472



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.3	1.3
10°-20°	449.9	3.8
20°-30°	667.3	5.6
30°-40°	780.8	6.6
40°-50°	777.4	6.5
50°-60°	671.3	5.6
60°-70°	483.2	4.1
70°-80°	253.4	2.1
80°-90°	65.6	0.6
90°-100°	548.9	4.6
100°-110°	1478.5	12.4
110°-120°	1551.7	13.1
120°-130°	1259.2	10.6
130°-140°	987.5	8.3
140°-150°	758.2	6.4
150°-160°	545.1	4.6
160°-170°	333.0	2.8
170°-180°	112.3	0.9
0°-30°	1276.6	10.7
0°-40°	2057.4	17.3
0°-60°	3506.1	29.5
0°-90°	4308.2	36.3
90°-120°	3579.1	30.1
90°-150°	6584.0	55.4
90°-180°	7574.0	63.7
0°-180°	11882.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1692	1692	1692	1692	1692	
5°	1697	1678	1683	1679	1676	161
15°	1615	1594	1597	1594	1591	455
25°	1476	1451	1449	1440	1445	679
35°	1269	1251	1251	1239	1244	793
45°	1020	1011	1006	1003	1002	787
55°	756	754	756	745	744	674
65°	479	493	502	483	467	474
75°	221	241	254	237	215	236
85°	37	49	55	52	49	49
90°	3	9	18	19	19	7
95°	84	298	900	460	318	87
105°	274	426	1635	2446	2296	288
115°	483	591	1362	2631	2976	475
125°	659	757	1223	2066	2432	589
135°	794	886	1188	1667	1888	613
145°	918	989	1173	1425	1530	576
155°	1042	1080	1163	1279	1320	480
165°	1130	1143	1167	1214	1220	319
175°	1175	1173	1169	1185	1182	112
180°	1173	1173	1173	1173	1173	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1692.2	1692.2	1692.2	1692.2	1692.2
2.5°	1701.8	1687.8	1692.2	1688.5	1680.3
5°	1696.7	1677.7	1683.3	1678.7	1675.8
7.5°	1679.4	1661.9	1666.0	1661.2	1659.4
10°	1663.9	1646.4	1650.5	1644.4	1641.5
12.5°	1646.0	1627.3	1631.4	1625.4	1623.6
15°	1614.7	1594.3	1596.8	1593.8	1590.8
17.5°	1578.3	1557.6	1558.0	1553.3	1552.7
20°	1552.1	1530.2	1528.2	1522.3	1525.2
22.5°	1523.5	1500.4	1498.4	1490.1	1494.2
25°	1476.0	1451.3	1449.2	1440.4	1444.7
27.5°	1421.2	1396.7	1396.7	1384.3	1389.0
30°	1380.6	1357.3	1359.7	1345.0	1350.8
32.5°	1337.7	1316.7	1318.0	1303.2	1309.1
35°	1268.8	1251.3	1250.9	1239.1	1243.5
37.5°	1198.4	1183.0	1180.5	1173.7	1174.9
40°	1149.5	1136.4	1131.6	1127.2	1127.2
42.5°	1098.2	1086.3	1081.5	1078.2	1077.1
45°	1019.8	1011.1	1006.4	1003.4	1001.9
47.5°	942.3	934.1	930.1	927.9	926.5
50°	888.6	882.8	881.2	876.6	875.2
52.5°	834.9	831.4	829.9	824.2	822.7
55°	755.9	754.5	755.9	745.4	744.0
57.5°	673.6	675.9	680.8	666.7	663.2
60°	618.7	624.6	630.7	614.1	608.3
62.5°	562.7	572.0	580.6	561.6	553.4
65°	478.6	493.2	502.4	482.7	466.7
67.5°	397.5	415.6	426.7	405.4	387.3
70°	341.4	361.8	374.2	352.9	332.5
72.5°	292.5	315.3	325.3	305.2	284.8
75°	220.7	241.1	253.5	236.6	214.7
77.5°	156.5	175.8	186.1	171.3	153.3
80°	114.8	135.2	143.1	130.9	116.3
82.5°	81.4	98.3	103.8	96.4	86.5
85°	37.3	48.9	55.2	52.1	49.2
87.5°	10.1	19.5	26.2	26.6	27.7
90°	3.0	8.8	17.9	19.4	19.4
92.5°	36.5	128.8	254.7	122.6	85.2
95°	83.7	298.5	899.8	460.1	318.4
97.5°	133.6	341.7	1411.3	1179.0	889.0
100°	171.9	359.0	1573.9	1646.7	1366.1
102.5°	209.0	383.2	1627.7	1997.0	1766.7
105°	273.5	425.5	1635.2	2446.3	2295.8
107.5°	334.5	470.1	1565.5	2677.2	2716.1
110°	375.2	503.8	1502.1	2748.9	2890.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	418.2	537.5	1441.2	2733.1	2966.0
115°	482.8	590.9	1361.6	2631.0	2975.9
117.5°	541.7	643.1	1300.1	2468.1	2852.1
120°	579.9	677.8	1269.0	2351.1	2745.7
122.5°	613.4	710.2	1246.3	2231.5	2624.9
125°	659.1	757.1	1222.6	2066.5	2431.8
127.5°	703.1	799.5	1207.7	1920.9	2247.1
130°	729.4	825.9	1201.7	1837.5	2123.9
132.5°	755.7	851.0	1195.7	1764.0	2027.1
135°	793.7	885.7	1188.3	1667.1	1887.8
137.5°	829.8	918.1	1184.4	1584.9	1766.1
140°	855.0	939.7	1180.8	1534.3	1697.9
142.5°	881.3	960.2	1178.4	1487.0	1625.0
145°	917.7	989.3	1173.3	1425.3	1530.5
147.5°	957.2	1019.4	1168.2	1373.4	1456.1
150°	983.5	1037.6	1165.8	1340.8	1409.5
152.5°	1007.4	1054.5	1164.6	1314.2	1370.0
155°	1041.8	1079.8	1162.9	1278.9	1319.8
157.5°	1072.0	1101.5	1163.2	1254.1	1281.5
160°	1091.1	1116.0	1164.3	1239.5	1260.0
162.5°	1107.8	1128.0	1165.5	1227.5	1242.1
165°	1130.0	1143.1	1167.3	1213.8	1219.7
167.5°	1147.9	1155.5	1168.8	1203.3	1205.6
170°	1159.9	1162.8	1168.8	1197.2	1197.2
172.5°	1167.0	1167.6	1170.0	1191.3	1191.3
175°	1174.8	1173.3	1168.8	1185.2	1182.3
177.5°	1178.1	1175.8	1169.7	1179.2	1176.9
180°	1173.3	1173.3	1173.3	1173.3	1173.3

(END OF REPORT)