

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: P565066

Luminaire Tested: **SQ4-PW1-125U-100D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565066  
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-100D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

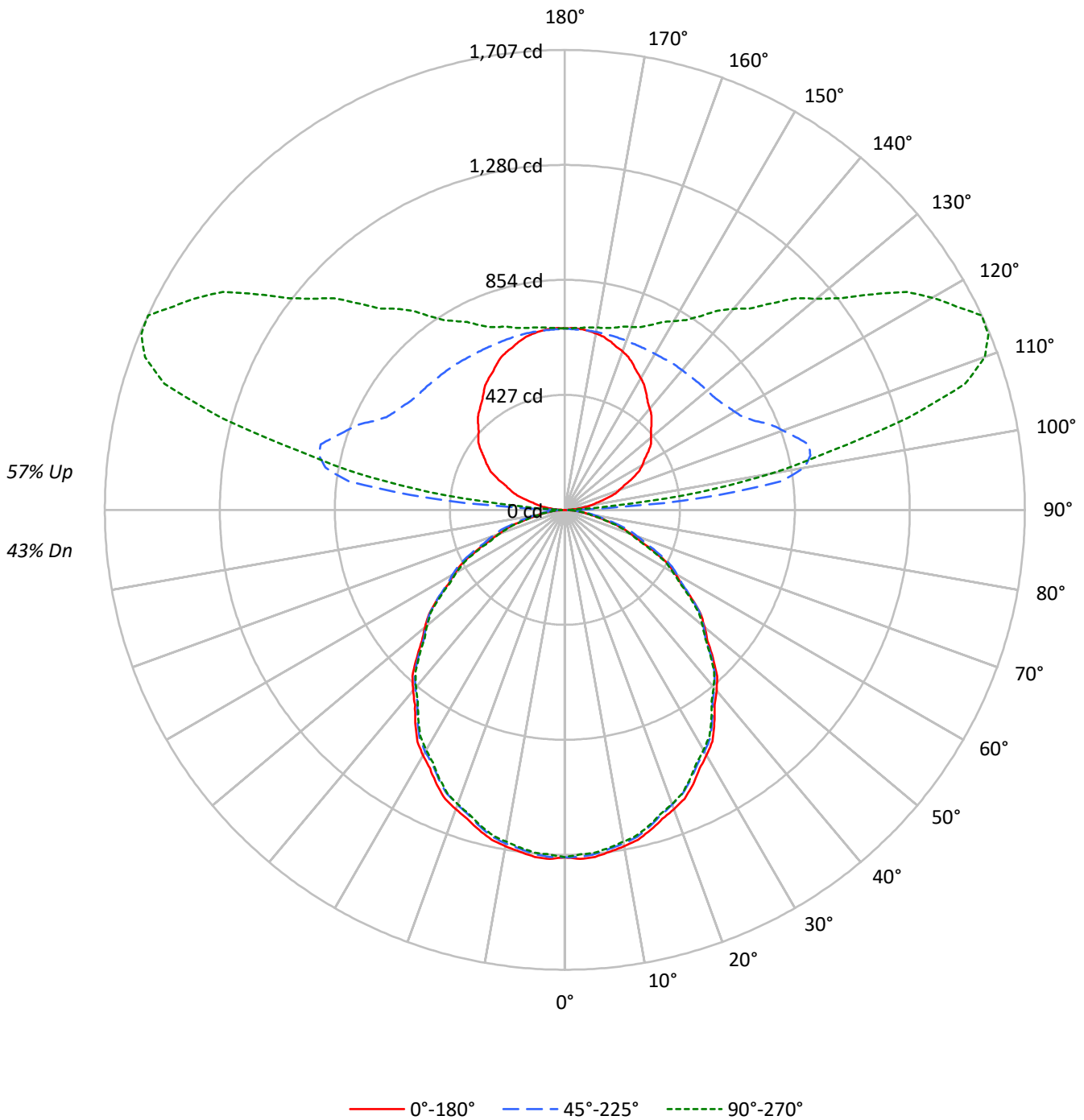
Lumens per Lamp: N/A  
Luminaire Lumens: 7626.2 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 64.5  
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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36
2	88	80	74	69	80	74	69	64	61	57	54	50	47	45	39	37	36	31
3	80	71	64	58	73	65	59	54	54	49	46	44	41	38	34	32	30	26
4	73	63	55	49	67	58	51	45	48	43	39	39	35	32	31	28	26	22
5	67	56	48	42	61	51	44	39	43	38	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	14
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	17	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

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

	0°	45°	90°
0°	11897	11897	11897
5°	11974	11880	11827
10°	11878	11783	11718
15°	11752	11622	11579
20°	11612	11433	11411
25°	11449	11242	11207
30°	11207	11038	10966
35°	10889	10736	10672
40°	10549	10385	10345
45°	10139	10006	9962
50°	9719	9637	9572
55°	9265	9265	9119
60°	8700	8868	8553
65°	7962	8359	7763
70°	7019	7693	6836
75°	5992	6883	5832
80°	4649	5797	4707
85°	3006	4446	3970



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.4	1.6
10°-20°	342.8	4.5
20°-30°	508.5	6.7
30°-40°	595.0	7.8
40°-50°	592.3	7.8
50°-60°	511.5	6.7
60°-70°	368.2	4.8
70°-80°	193.1	2.5
80°-90°	49.4	0.6
90°-100°	314.8	4.1
100°-110°	847.9	11.1
110°-120°	889.9	11.7
120°-130°	722.1	9.5
130°-140°	566.3	7.4
140°-150°	434.8	5.7
150°-160°	312.6	4.1
160°-170°	191.0	2.5
170°-180°	64.4	0.8
0°-30°	972.7	12.8
0°-40°	1567.7	20.6
0°-60°	2671.6	35.0
0°-90°	3282.3	43.0
90°-120°	2052.6	26.9
90°-150°	3775.9	49.5
90°-180°	4344.0	57.0
0°-180°	7626.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1290	1290	1290	1290	1290	
5°	1293	1278	1283	1279	1277	122
15°	1230	1215	1217	1214	1212	347
25°	1125	1106	1104	1098	1101	517
35°	967	954	953	944	948	604
45°	777	770	767	765	764	600
55°	576	575	576	568	567	514
65°	365	376	383	368	356	361
75°	168	184	193	180	164	180
85°	28	37	42	40	38	37
90°	2	5	10	11	11	4
95°	48	171	516	264	183	50
105°	157	244	938	1403	1317	165
115°	277	339	781	1509	1707	272
125°	378	434	701	1185	1395	338
135°	455	508	682	956	1083	351
145°	526	567	673	817	878	330
155°	598	619	667	733	757	275
165°	648	656	670	696	700	183
175°	674	673	670	680	678	64
180°	673	673	673	673	673	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1289.5	1289.5	1289.5	1289.5	1289.5
2.5°	1296.7	1286.1	1289.5	1286.6	1280.4
5°	1292.9	1278.4	1282.7	1279.2	1277.0
7.5°	1279.7	1266.4	1269.5	1265.8	1264.5
10°	1267.9	1254.6	1257.7	1253.1	1250.8
12.5°	1254.3	1240.0	1243.1	1238.5	1237.2
15°	1230.4	1214.8	1216.8	1214.4	1212.2
17.5°	1202.7	1186.9	1187.2	1183.6	1183.1
20°	1182.7	1166.0	1164.5	1160.0	1162.2
22.5°	1160.9	1143.3	1141.8	1135.5	1138.6
25°	1124.7	1105.9	1104.3	1097.5	1100.9
27.5°	1082.9	1064.3	1064.3	1054.8	1058.4
30°	1052.0	1034.3	1036.1	1024.9	1029.3
32.5°	1019.3	1003.3	1004.3	993.1	997.5
35°	966.8	953.5	953.2	944.2	947.5
37.5°	913.2	901.4	899.6	894.4	895.2
40°	875.9	865.9	862.3	858.9	858.9
42.5°	836.9	827.7	824.1	821.6	820.7
45°	777.1	770.4	766.9	764.6	763.5
47.5°	718.0	711.8	708.7	707.1	706.0
50°	677.1	672.7	671.4	668.0	666.9
52.5°	636.2	633.6	632.4	628.0	626.9
55°	576.0	574.9	576.0	568.0	566.9
57.5°	513.3	515.1	518.7	508.0	505.3
60°	471.5	475.9	480.6	468.0	463.5
62.5°	428.8	435.9	442.4	427.9	421.7
65°	364.7	375.8	382.9	367.8	355.6
67.5°	302.9	316.7	325.2	308.9	295.2
70°	260.2	275.7	285.2	268.9	253.4
72.5°	222.9	240.2	247.9	232.5	217.0
75°	168.1	183.7	193.1	180.3	163.6
77.5°	119.3	134.0	141.8	130.6	116.8
80°	87.5	103.0	109.1	99.7	88.6
82.5°	62.0	74.9	79.1	73.4	65.9
85°	28.4	37.3	42.0	39.7	37.5
87.5°	7.6	14.5	19.3	19.5	20.4
90°	1.7	5.1	10.3	11.1	11.1
92.5°	20.9	73.9	146.1	70.3	48.9
95°	48.0	171.2	516.0	263.9	182.6
97.5°	76.6	196.0	809.3	676.1	509.9
100°	98.6	205.9	902.6	944.4	783.5
102.5°	119.8	219.7	933.5	1145.3	1013.2
105°	156.9	244.0	937.8	1403.0	1316.6
107.5°	191.8	269.6	897.8	1535.4	1557.7
110°	215.2	288.9	861.5	1576.5	1657.8

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CATALOG NUMBER: SQ4-PW1-125U-100D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	239.8	308.2	826.5	1567.4	1701.0
115°	276.9	338.9	780.9	1508.8	1706.6
117.5°	310.6	368.8	745.6	1415.4	1635.7
120°	332.6	388.7	727.7	1348.3	1574.6
122.5°	351.8	407.3	714.7	1279.8	1505.4
125°	378.0	434.2	701.2	1185.1	1394.6
127.5°	403.2	458.5	692.6	1101.6	1288.7
130°	418.3	473.6	689.2	1053.8	1218.1
132.5°	433.4	488.0	685.7	1011.6	1162.5
135°	455.2	508.0	681.5	956.1	1082.6
137.5°	475.9	526.5	679.2	908.9	1012.8
140°	490.3	538.9	677.2	879.9	973.8
142.5°	505.4	550.7	675.8	852.8	931.9
145°	526.3	567.4	672.9	817.4	877.8
147.5°	548.9	584.6	670.0	787.6	835.1
150°	564.0	595.0	668.6	768.9	808.3
152.5°	577.7	604.7	667.9	753.7	785.7
155°	597.5	619.2	666.9	733.4	756.9
157.5°	614.8	631.7	667.1	719.2	734.9
160°	625.7	640.0	667.7	710.9	722.6
162.5°	635.3	646.9	668.4	703.9	712.3
165°	648.0	655.6	669.5	696.1	699.5
167.5°	658.3	662.7	670.3	690.1	691.4
170°	665.2	666.8	670.3	686.6	686.6
172.5°	669.3	669.6	671.0	683.2	683.2
175°	673.7	672.9	670.3	679.7	678.0
177.5°	675.6	674.3	670.8	676.3	674.9
180°	672.9	672.9	672.9	672.9	672.9

(END OF REPORT)