

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: P563746

Luminaire Tested: **SQ4-PP3-125U-125D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563746  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PP3-125U-125D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

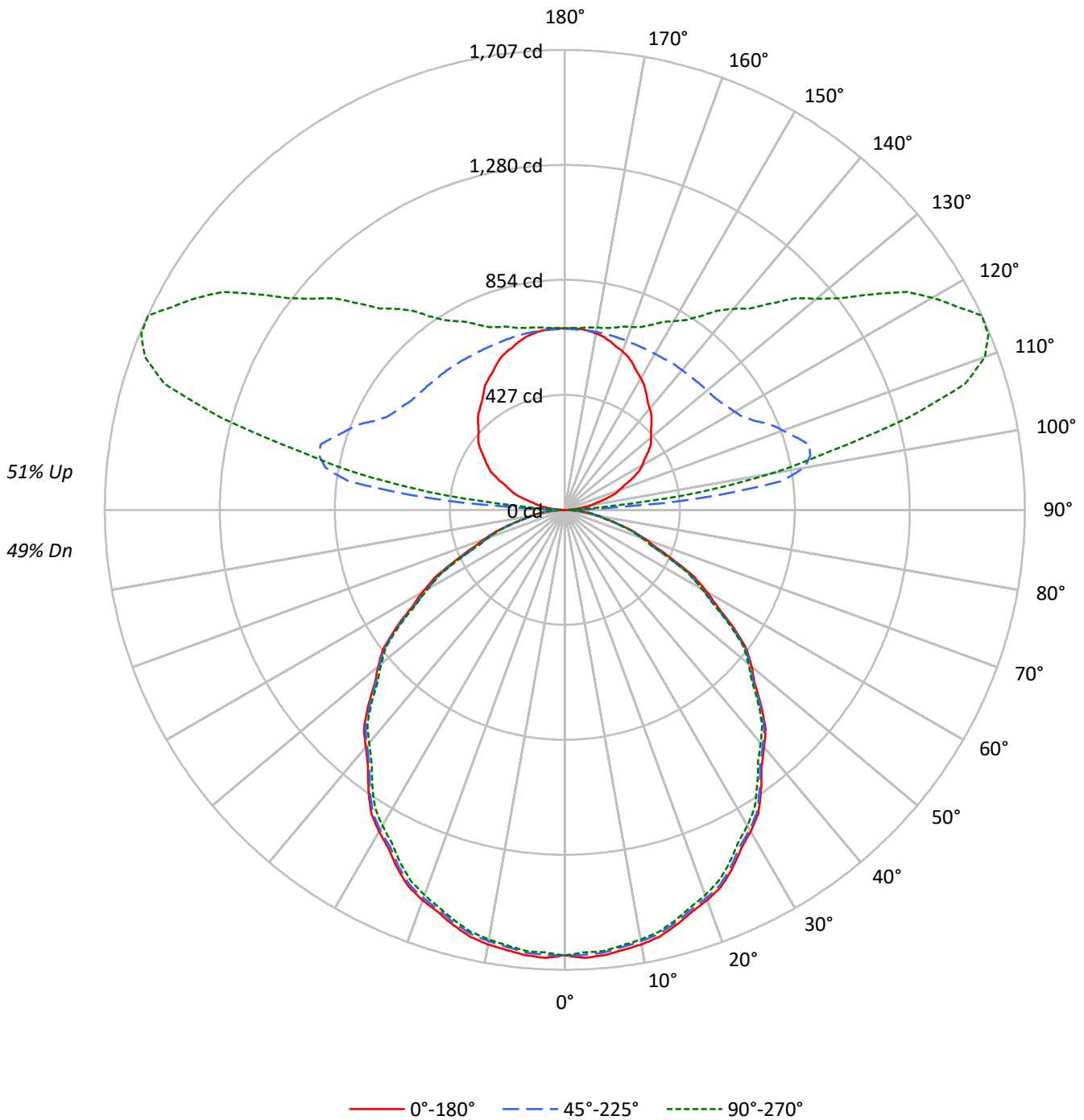
Lumens per Lamp: N/A  
Luminaire Lumens: 8578.4 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 75.3  
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42
2	89	82	76	71	82	76	71	66	64	60	57	54	51	48	44	42	40	35
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30
4	75	64	56	50	69	59	52	47	50	45	41	42	38	35	35	32	30	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26	23
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13

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

	0°	45°	90°
0°	15258	15258	15258
5°	15370	15277	15223
10°	15345	15236	15169
15°	15244	15160	15077
20°	15142	15056	14943
25°	14963	14859	14711
30°	14685	14608	14423
35°	14301	14203	14024
40°	13843	13757	13599
45°	13465	13371	13238
50°	12983	12899	12775
55°	12310	12148	12054
60°	11206	10885	10832
65°	9872	9462	9429
70°	8524	8171	8171
75°	7336	7233	7129
80°	6471	6546	6392
85°	5060	5526	5526



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.4	1.8
10°-20°	446.5	5.2
20°-30°	668.8	7.8
30°-40°	784.5	9.1
40°-50°	787.0	9.2
50°-60°	671.4	7.8
60°-70°	437.8	5.1
70°-80°	219.7	2.6
80°-90°	62.4	0.7
90°-100°	314.8	3.7
100°-110°	847.9	9.9
110°-120°	889.9	10.4
120°-130°	722.1	8.4
130°-140°	566.3	6.6
140°-150°	434.8	5.1
150°-160°	312.6	3.6
160°-170°	191.0	2.2
170°-180°	64.4	0.8
0°-30°	1271.8	14.8
0°-40°	2056.3	24.0
0°-60°	3514.6	41.0
0°-90°	4234.5	49.4
90°-120°	2052.6	23.9
90°-150°	3775.9	44.0
90°-180°	4344.0	50.6
0°-180°	8578.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1660	1644	1650	1644	1644	158
15°	1596	1580	1587	1581	1578	450
25°	1470	1453	1460	1446	1445	676
35°	1270	1257	1261	1246	1245	793
45°	1032	1025	1025	1015	1015	795
55°	765	762	755	751	749	680
65°	452	444	433	430	432	451
75°	206	206	203	201	200	223
85°	48	52	52	52	52	56
90°	2	5	10	11	11	5
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°	1653.8	1653.8	1653.8	1653.8	1653.8
2.5°	1664.3	1650.7	1653.8	1651.4	1644.6
5°	1659.6	1644.1	1649.5	1643.7	1643.7
7.5°	1648.3	1631.3	1636.7	1630.9	1630.7
10°	1637.9	1620.9	1626.3	1620.5	1619.1
12.5°	1622.8	1605.8	1612.4	1605.4	1605.1
15°	1595.9	1580.3	1587.2	1581.3	1578.5
17.5°	1565.4	1548.4	1556.7	1548.6	1547.5
20°	1542.2	1525.2	1533.5	1521.9	1521.9
22.5°	1514.4	1497.4	1506.9	1491.8	1491.8
25°	1469.8	1452.8	1459.6	1446.5	1445.1
27.5°	1416.7	1400.0	1407.1	1392.4	1392.1
30°	1378.4	1362.9	1371.2	1355.2	1353.8
32.5°	1336.7	1322.2	1328.3	1312.3	1310.9
35°	1269.7	1257.0	1261.0	1246.5	1245.1
37.5°	1199.3	1186.3	1190.9	1178.4	1177.8
40°	1149.4	1140.9	1142.2	1132.0	1129.1
42.5°	1103.0	1093.4	1094.6	1084.5	1083.9
45°	1032.0	1024.9	1024.8	1014.6	1014.6
47.5°	956.7	951.3	949.7	941.3	941.0
50°	904.5	900.2	898.7	891.4	890.0
52.5°	850.0	848.0	843.0	836.9	836.6
55°	765.3	762.5	755.2	750.8	749.4
57.5°	673.4	667.8	659.5	653.2	654.3
60°	607.3	601.7	589.9	587.0	587.0
62.5°	543.6	536.7	525.0	521.0	523.3
65°	452.2	443.7	433.4	430.5	431.9
67.5°	369.3	361.7	350.5	350.5	349.3
70°	316.0	311.7	302.9	302.9	302.9
72.5°	268.4	266.5	260.0	260.0	258.9
75°	205.8	205.8	202.9	201.4	200.0
77.5°	154.2	154.8	153.4	151.8	149.3
80°	121.8	124.6	123.2	121.7	120.3
82.5°	91.6	94.4	94.2	91.6	91.3
85°	47.8	52.1	52.2	52.2	52.2
87.5°	13.1	18.3	20.6	20.8	21.9
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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**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)