

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: P563696

Luminaire Tested: **SQ4-PP3-125U-075D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563696  
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-075D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

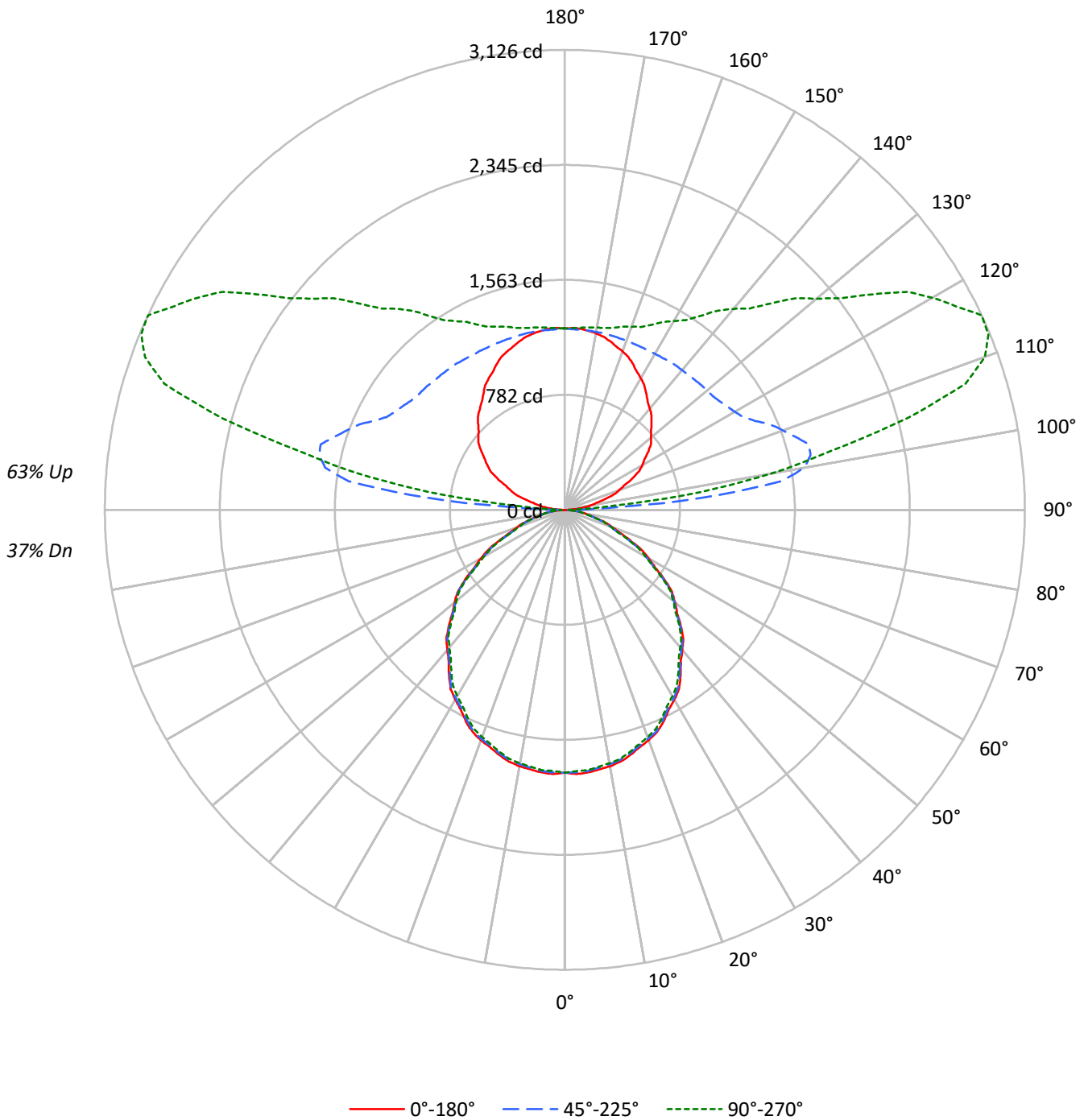
Lumens per Lamp: N/A  
Luminaire Lumens: 12531.9 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 116  
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	50	30	10	0	
RCR																						
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37				37
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37				31	
2	87	79	73	68	78	72	67	63	59	55	52	46	44	41	34	33	32				26	
3	79	70	63	57	71	64	57	53	52	47	44	41	38	35	31	29	27				22	
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23				19	
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20				17	
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18				15	
7	56	44	37	31	51	41	34	29	33	28	24	27	23	20	20	18	16				13	
8	52	40	33	27	47	37	30	26	30	25	22	24	21	18	19	16	14				12	
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13				11	
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	12				10	

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

	0°	45°	90°
0°	8241	8241	8241
5°	8302	8251	8222
10°	8288	8229	8193
15°	8233	8188	8143
20°	8179	8133	8071
25°	8081	8025	7946
30°	7932	7890	7790
35°	7724	7671	7574
40°	7477	7430	7345
45°	7273	7222	7150
50°	7012	6967	6900
55°	6649	6561	6511
60°	6053	5880	5850
65°	5332	5111	5093
70°	4603	4413	4413
75°	3962	3907	3852
80°	3493	3536	3454
85°	2736	2985	2985



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.9	1.3
10°-20°	482.4	3.8
20°-30°	722.5	5.8
30°-40°	847.5	6.8
40°-50°	850.1	6.8
50°-60°	725.2	5.8
60°-70°	473.0	3.8
70°-80°	237.3	1.9
80°-90°	68.6	0.5
90°-100°	576.6	4.6
100°-110°	1553.1	12.4
110°-120°	1629.9	13.0
120°-130°	1322.7	10.6
130°-140°	1037.3	8.3
140°-150°	796.4	6.4
150°-160°	572.6	4.6
160°-170°	349.8	2.8
170°-180°	118.0	0.9
0°-30°	1373.8	11.0
0°-40°	2221.3	17.7
0°-60°	3796.6	30.3
0°-90°	4575.5	36.5
90°-120°	3759.6	30.0
90°-150°	6916.0	55.2
90°-180°	7956.0	63.5
0°-180°	12531.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1786	1786	1786	1786	1786	
5°	1793	1776	1782	1776	1776	170
15°	1724	1707	1714	1708	1705	486
25°	1588	1569	1577	1563	1561	730
35°	1372	1358	1362	1346	1345	857
45°	1115	1107	1107	1096	1096	858
55°	827	824	816	811	810	735
65°	488	479	468	465	467	488
75°	222	222	219	218	216	241
85°	52	56	56	56	56	61
90°	3	9	19	20	20	8
95°	88	314	945	483	334	92
105°	287	447	1718	2570	2412	302
115°	507	621	1430	2764	3126	499
125°	692	795	1284	2171	2554	618
135°	834	930	1248	1751	1983	643
145°	964	1039	1232	1497	1608	605
155°	1094	1134	1222	1343	1386	504
165°	1187	1201	1226	1275	1281	335
175°	1234	1232	1228	1245	1242	117
180°	1232	1232	1232	1232	1232	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1786.5	1786.5	1786.5	1786.5	1786.5
2.5°	1797.8	1783.1	1786.5	1783.9	1776.5
5°	1792.8	1776.0	1781.9	1775.6	1775.6
7.5°	1780.6	1762.2	1768.1	1761.8	1761.5
10°	1769.3	1751.0	1756.8	1750.5	1749.0
12.5°	1753.0	1734.7	1741.8	1734.2	1733.9
15°	1723.9	1707.1	1714.5	1708.2	1705.1
17.5°	1691.0	1672.7	1681.6	1672.8	1671.6
20°	1666.0	1647.6	1656.6	1644.1	1644.1
22.5°	1635.9	1617.5	1627.8	1611.5	1611.5
25°	1587.7	1569.3	1576.7	1562.6	1561.1
27.5°	1530.4	1512.3	1520.1	1504.1	1503.8
30°	1489.1	1472.2	1481.2	1464.0	1462.4
32.5°	1444.0	1428.3	1434.9	1417.6	1416.1
35°	1371.6	1357.8	1362.2	1346.5	1345.0
37.5°	1295.5	1281.4	1286.4	1273.0	1272.3
40°	1241.7	1232.5	1233.8	1222.8	1219.7
42.5°	1191.6	1181.1	1182.5	1171.5	1170.9
45°	1114.8	1107.2	1107.0	1096.0	1096.0
47.5°	1033.4	1027.6	1025.9	1016.8	1016.5
50°	977.0	972.4	970.8	962.9	961.4
52.5°	918.2	916.0	910.7	904.1	903.8
55°	826.7	823.7	815.8	811.0	809.5
57.5°	727.5	721.3	712.4	705.6	706.8
60°	656.1	649.9	637.3	634.1	634.1
62.5°	587.2	579.8	567.1	562.8	565.2
65°	488.5	479.3	468.2	465.1	466.6
67.5°	399.0	390.7	378.6	378.6	377.4
70°	341.3	336.7	327.2	327.2	327.2
72.5°	290.0	287.8	280.9	280.9	279.6
75°	222.3	222.3	219.2	217.6	216.1
77.5°	166.6	167.2	165.7	164.0	161.3
80°	131.5	134.6	133.1	131.5	130.0
82.5°	99.0	102.0	101.8	98.9	98.6
85°	51.7	56.3	56.4	56.4	56.4
87.5°	14.4	20.5	23.8	24.2	25.4
90°	3.1	9.3	18.8	20.4	20.4
92.5°	38.3	135.3	267.5	128.8	89.5
95°	87.9	313.6	945.2	483.3	334.4
97.5°	140.4	359.0	1482.4	1238.4	933.9
100°	180.6	377.1	1653.3	1729.8	1435.0
102.5°	219.5	402.5	1709.8	2097.7	1855.8
105°	287.3	447.0	1717.6	2569.7	2411.6
107.5°	351.4	493.8	1644.5	2812.3	2853.1
110°	394.1	529.2	1577.9	2887.6	3036.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	439.3	564.6	1513.8	2870.9	3115.6
115°	507.1	620.7	1430.3	2763.7	3126.0
117.5°	569.0	675.5	1365.6	2592.5	2996.0
120°	609.2	712.0	1333.0	2469.7	2884.2
122.5°	644.4	746.0	1309.1	2344.1	2757.3
125°	692.4	795.3	1284.3	2170.7	2554.5
127.5°	738.6	839.9	1268.6	2017.8	2360.4
130°	766.2	867.5	1262.3	1930.2	2231.1
132.5°	793.8	893.9	1256.0	1853.0	2129.3
135°	833.7	930.4	1248.2	1751.2	1983.0
137.5°	871.7	964.4	1244.1	1664.8	1855.2
140°	898.1	987.1	1240.3	1611.6	1783.6
142.5°	925.7	1008.6	1237.8	1562.0	1707.0
145°	964.0	1039.2	1232.5	1497.2	1607.7
147.5°	1005.5	1070.9	1227.2	1442.7	1529.5
150°	1033.1	1089.9	1224.6	1408.4	1480.6
152.5°	1058.2	1107.7	1223.4	1380.5	1439.1
155°	1094.3	1134.2	1221.5	1343.4	1386.4
157.5°	1126.0	1157.1	1221.8	1317.3	1346.2
160°	1146.1	1172.2	1223.1	1302.1	1323.6
162.5°	1163.7	1184.9	1224.3	1289.4	1304.7
165°	1187.0	1200.8	1226.2	1275.0	1281.2
167.5°	1205.8	1213.8	1227.8	1264.0	1266.4
170°	1218.4	1221.4	1227.8	1257.6	1257.6
172.5°	1225.9	1226.5	1229.0	1251.3	1251.3
175°	1234.1	1232.5	1227.8	1245.0	1241.9
177.5°	1237.5	1235.1	1228.7	1238.7	1236.3
180°	1232.5	1232.5	1232.5	1232.5	1232.5

(END OF REPORT)