

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: P565048

Luminaire Tested: **SQ4-PW1-125U-075D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565048  
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-940-1D-UNV-STD-W-8  
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, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

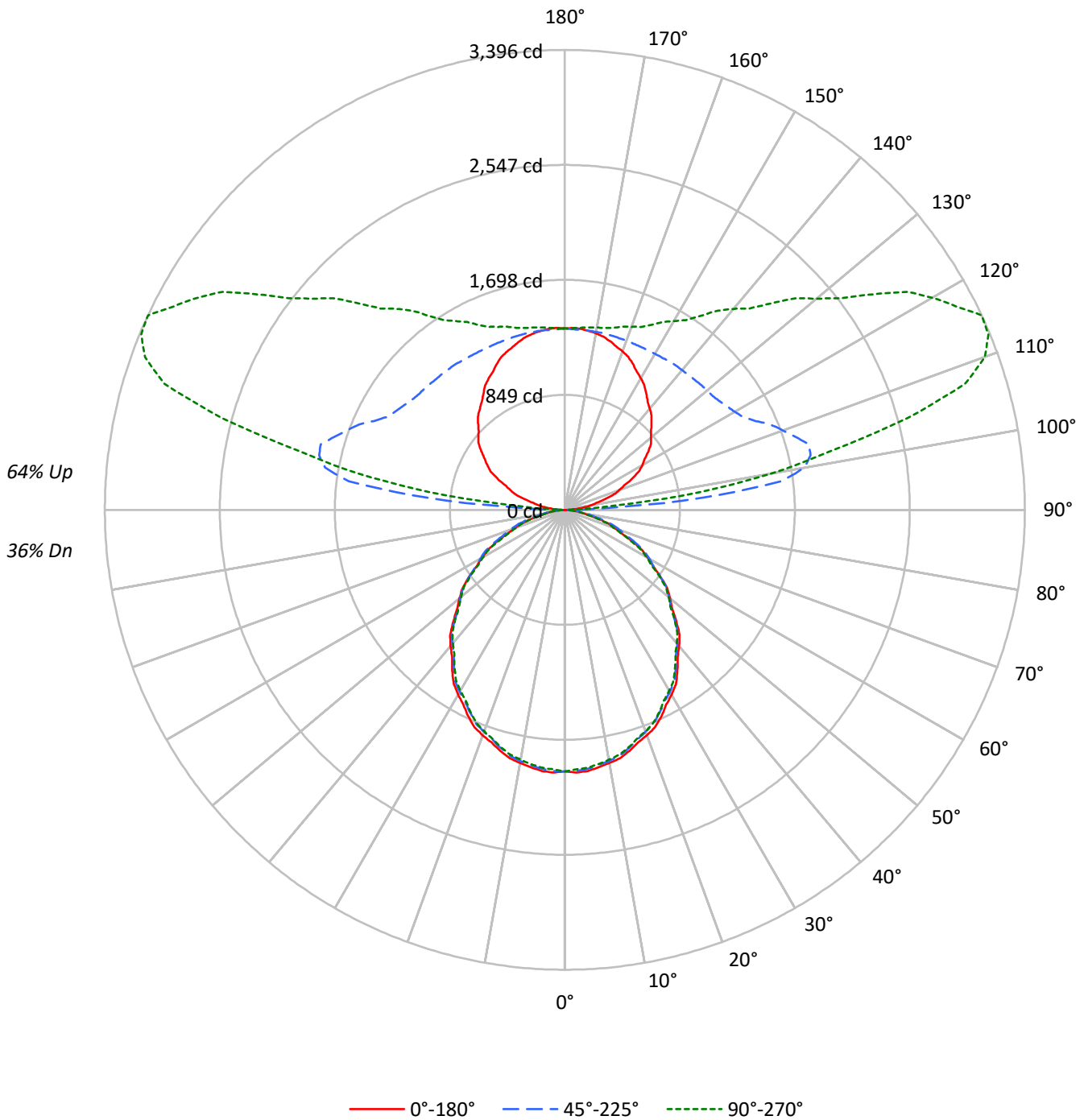
Lumens per Lamp: N/A  
Luminaire Lumens: 13560.0 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

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	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°	8908	8908	8908
5°	8966	8895	8856
10°	8894	8823	8775
15°	8800	8703	8670
20°	8695	8561	8544
25°	8574	8418	8392
30°	8392	8266	8211
35°	8154	8039	7991
40°	7900	7777	7746
45°	7593	7492	7459
50°	7277	7216	7167
55°	6938	6938	6828
60°	6515	6640	6405
65°	5962	6259	5813
70°	5255	5761	5117
75°	4488	5155	4367
80°	3480	4338	3525
85°	2249	3335	2969



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.8	1.3
10°-20°	513.4	3.8
20°-30°	761.5	5.6
30°-40°	891.1	6.6
40°-50°	887.1	6.5
50°-60°	766.0	5.6
60°-70°	551.4	4.1
70°-80°	289.2	2.1
80°-90°	74.8	0.6
90°-100°	626.4	4.6
100°-110°	1687.3	12.4
110°-120°	1770.7	13.1
120°-130°	1436.9	10.6
130°-140°	1126.9	8.3
140°-150°	865.2	6.4
150°-160°	622.1	4.6
160°-170°	380.0	2.8
170°-180°	128.2	0.9
0°-30°	1456.8	10.7
0°-40°	2347.8	17.3
0°-60°	4001.0	29.5
0°-90°	4916.4	36.3
90°-120°	4084.4	30.1
90°-150°	7513.4	55.4
90°-180°	8644.0	63.7
0°-180°	13560.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1931	1931	1931	1931	1931	
5°	1936	1915	1921	1916	1912	183
15°	1843	1819	1822	1819	1815	519
25°	1684	1656	1654	1644	1649	775
35°	1448	1428	1428	1414	1419	905
45°	1164	1154	1148	1145	1143	898
55°	863	861	863	851	849	770
65°	546	563	573	551	532	541
75°	252	275	289	270	245	270
85°	42	56	63	60	56	56
90°	3	10	20	22	22	8
95°	96	341	1027	525	363	100
105°	312	486	1866	2792	2620	328
115°	551	674	1554	3002	3396	542
125°	752	864	1395	2358	2775	672
135°	906	1011	1356	1902	2154	699
145°	1047	1129	1339	1626	1747	657
155°	1189	1232	1327	1459	1506	547
165°	1290	1304	1332	1385	1392	364
175°	1341	1339	1334	1352	1349	127
180°	1339	1339	1339	1339	1339	

TEST NUMBER: P565048

CATALOG NUMBER: SQ4-PW1-125U-075D-940-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1931.1	1931.1	1931.1	1931.1	1931.1
2.5°	1942.0	1926.0	1931.1	1926.8	1917.5
5°	1936.2	1914.6	1920.9	1915.7	1912.4
7.5°	1916.5	1896.5	1901.2	1895.7	1893.7
10°	1898.8	1878.8	1883.5	1876.6	1873.2
12.5°	1878.4	1857.1	1861.7	1854.8	1852.8
15°	1842.6	1819.3	1822.2	1818.7	1815.4
17.5°	1801.1	1777.5	1778.0	1772.5	1771.8
20°	1771.2	1746.2	1743.9	1737.2	1740.5
22.5°	1738.5	1712.2	1709.9	1700.5	1705.1
25°	1684.4	1656.1	1653.8	1643.7	1648.7
27.5°	1621.8	1593.8	1593.9	1579.7	1585.0
30°	1575.5	1548.9	1551.7	1534.8	1541.5
32.5°	1526.5	1502.5	1504.0	1487.2	1493.8
35°	1447.9	1427.9	1427.5	1414.0	1419.0
37.5°	1367.6	1350.0	1347.2	1339.4	1340.7
40°	1311.8	1296.8	1291.4	1286.3	1286.3
42.5°	1253.3	1239.6	1234.2	1230.4	1229.1
45°	1163.8	1153.8	1148.4	1145.0	1143.3
47.5°	1075.3	1066.0	1061.3	1058.9	1057.3
50°	1014.0	1007.4	1005.5	1000.4	998.7
52.5°	952.8	948.8	947.0	940.5	938.8
55°	862.6	860.9	862.6	850.7	849.0
57.5°	768.7	771.4	776.9	760.8	756.8
60°	706.1	712.7	719.7	700.8	694.2
62.5°	642.1	652.8	662.5	640.9	631.6
65°	546.2	562.8	573.4	550.8	532.5
67.5°	453.6	474.2	486.9	462.7	442.0
70°	389.6	412.9	427.1	402.7	379.4
72.5°	333.8	359.8	371.2	348.3	325.0
75°	251.8	275.1	289.2	270.0	245.0
77.5°	178.6	200.6	212.3	195.5	174.9
80°	131.0	154.3	163.3	149.3	132.7
82.5°	92.9	112.2	118.4	110.0	98.7
85°	42.5	55.8	63.0	59.5	56.1
87.5°	11.6	22.2	30.0	30.3	31.7
90°	3.4	10.1	20.5	22.2	22.2
92.5°	41.6	147.0	290.6	139.9	97.2
95°	95.5	340.7	1026.8	525.1	363.3
97.5°	152.5	390.0	1610.5	1345.4	1014.5
100°	196.2	409.6	1796.1	1879.2	1559.0
102.5°	238.5	437.2	1857.5	2278.9	2016.1
105°	312.1	485.6	1866.0	2791.7	2619.9
107.5°	381.7	536.5	1786.5	3055.2	3099.5
110°	428.1	574.9	1714.2	3137.0	3298.7

TEST NUMBER: P565048

CATALOG NUMBER: SQ4-PW1-125U-075D-940-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	477.2	613.3	1644.6	3118.9	3384.7
115°	550.9	674.3	1553.9	3002.4	3396.0
117.5°	618.1	733.9	1483.6	2816.4	3254.7
120°	661.8	773.5	1448.1	2683.0	3133.3
122.5°	700.0	810.4	1422.2	2546.5	2995.5
125°	752.2	863.9	1395.2	2358.2	2775.1
127.5°	802.3	912.4	1378.2	2192.0	2564.3
130°	832.4	942.4	1371.3	2096.9	2423.7
132.5°	862.4	971.1	1364.5	2013.0	2313.2
135°	905.7	1010.8	1356.0	1902.4	2154.2
137.5°	947.0	1047.7	1351.6	1808.6	2015.4
140°	975.6	1072.4	1347.5	1750.8	1937.6
142.5°	1005.7	1095.7	1344.7	1697.0	1854.4
145°	1047.3	1129.0	1338.9	1626.5	1746.6
147.5°	1092.3	1163.3	1333.1	1567.3	1661.6
150°	1122.3	1184.0	1330.4	1530.0	1608.4
152.5°	1149.6	1203.3	1329.0	1499.7	1563.4
155°	1188.8	1232.2	1327.0	1459.4	1506.1
157.5°	1223.3	1257.0	1327.3	1431.1	1462.4
160°	1245.1	1273.5	1328.7	1414.5	1437.9
162.5°	1264.2	1287.2	1330.1	1400.7	1417.4
165°	1289.5	1304.5	1332.1	1385.1	1391.8
167.5°	1309.9	1318.6	1333.8	1373.1	1375.8
170°	1323.6	1326.9	1333.8	1366.2	1366.2
172.5°	1331.8	1332.4	1335.2	1359.4	1359.4
175°	1340.6	1339.0	1333.8	1352.5	1349.2
177.5°	1344.4	1341.7	1334.8	1345.7	1343.0
180°	1338.9	1338.9	1338.9	1338.9	1338.9

(END OF REPORT)