

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: P564336

Luminaire Tested: **SQ4-PR1-125U-050D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564336
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-125U-050D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

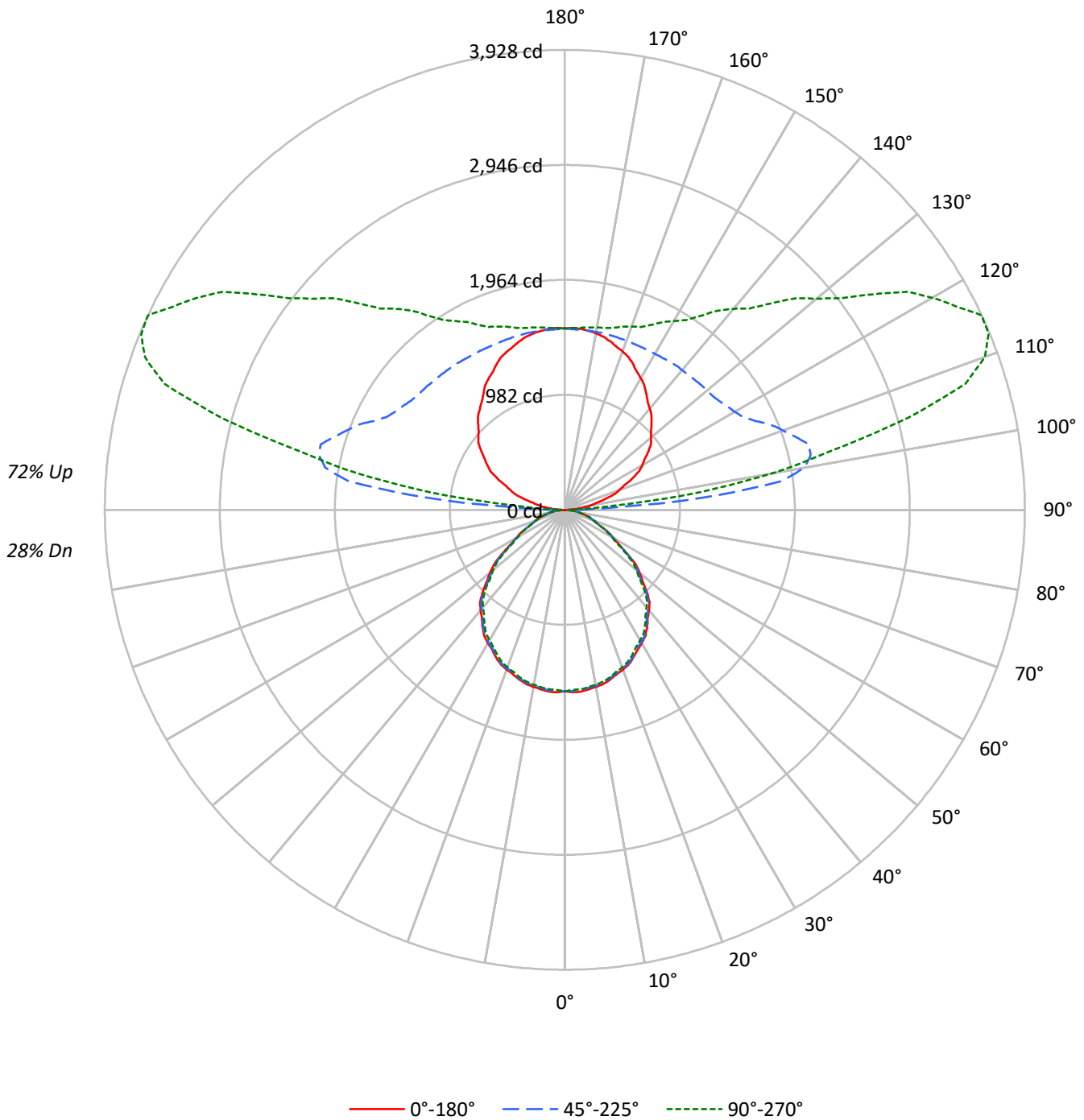
Lumens per Lamp: N/A
Luminaire Lumens: 13877.9 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 96.8
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	77	74	62	60	58	47	45	44	32	31	31	24
2	85	78	72	67	76	70	65	61	55	51	49	41	39	37	28	27	26	20
3	77	68	61	56	69	61	56	51	48	44	41	36	34	31	25	24	22	17
4	71	61	53	47	63	54	48	43	43	39	35	32	29	27	23	21	19	15
5	65	54	46	40	58	48	42	37	38	34	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	35	30	26	26	23	20	18	16	15	12
7	55	43	36	30	49	39	33	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	27	46	35	29	25	28	24	20	22	18	16	15	13	12	9
9	47	36	29	24	42	32	26	22	26	21	18	20	17	14	14	12	11	8
10	44	33	26	21	40	30	23	19	24	19	16	18	15	13	13	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7152	7152	7152
5°	7216	7160	7123
10°	7193	7143	7106
15°	7162	7117	7079
20°	7126	7080	7027
25°	7076	7028	6946
30°	6999	6949	6850
35°	6896	6836	6738
40°	6739	6666	6546
45°	6464	6351	6220
50°	5980	5836	5721
55°	5220	5101	4994
60°	4398	4361	4275
65°	3804	3819	3790
70°	3495	3512	3512
75°	3356	3356	3379
80°	3156	3193	3156
85°	2546	2826	2826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.6	1.1
10°-20°	419.5	3.0
20°-30°	632.7	4.6
30°-40°	753.8	5.4
40°-50°	743.2	5.4
50°-60°	568.0	4.1
60°-70°	351.5	2.5
70°-80°	199.6	1.4
80°-90°	64.4	0.5
90°-100°	724.6	5.2
100°-110°	1951.8	14.1
110°-120°	2048.3	14.8
120°-130°	1662.1	12.0
130°-140°	1303.6	9.4
140°-150°	1000.8	7.2
150°-160°	719.6	5.2
160°-170°	439.6	3.2
170°-180°	148.3	1.1
0°-30°	1198.7	8.6
0°-40°	1952.6	14.1
0°-60°	3263.8	23.5
0°-90°	3879.3	28.0
90°-120°	4724.6	34.0
90°-150°	8691.2	62.6
90°-180°	9999.0	72.0
0°-180°	13877.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1550	1550	1550	1550	1550	
5°	1558	1541	1546	1541	1538	148
15°	1500	1484	1490	1485	1482	423
25°	1390	1373	1381	1366	1365	640
35°	1224	1210	1214	1198	1196	764
45°	991	978	974	956	953	759
55°	649	638	634	624	621	582
65°	348	346	350	347	347	353
75°	188	188	188	190	190	199
85°	48	51	53	53	53	56
90°	4	12	24	26	26	10
95°	110	394	1188	607	420	115
105°	361	562	2158	3229	3031	380
115°	637	780	1797	3473	3928	627
125°	870	999	1614	2728	3210	777
135°	1048	1169	1569	2201	2492	809
145°	1211	1306	1549	1882	2020	760
155°	1375	1425	1535	1688	1742	633
165°	1492	1509	1541	1602	1610	421
175°	1551	1549	1543	1564	1561	147
180°	1549	1549	1549	1549	1549	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1550.3	1550.3	1550.3	1550.3	1550.3
2.5°	1559.9	1546.4	1550.3	1546.9	1539.6
5°	1558.3	1541.4	1546.3	1540.9	1538.3
7.5°	1546.3	1529.6	1534.6	1529.2	1527.6
10°	1535.6	1520.0	1524.9	1519.5	1516.9
12.5°	1523.9	1507.2	1513.2	1506.7	1504.1
15°	1499.6	1483.9	1490.2	1484.8	1482.2
17.5°	1472.9	1456.2	1462.5	1456.2	1452.8
20°	1451.5	1435.8	1442.2	1432.8	1431.5
22.5°	1428.0	1412.3	1418.7	1406.1	1405.8
25°	1390.1	1373.1	1380.7	1366.0	1364.7
27.5°	1344.9	1329.3	1335.6	1320.6	1319.0
30°	1314.0	1298.3	1304.6	1288.5	1285.9
32.5°	1278.7	1264.1	1269.4	1253.3	1251.7
35°	1224.5	1210.1	1213.8	1197.8	1196.5
37.5°	1162.8	1149.7	1151.9	1134.2	1132.9
40°	1119.0	1105.9	1107.0	1088.3	1087.0
42.5°	1070.9	1057.9	1056.8	1038.1	1036.7
45°	990.8	977.8	973.5	956.0	953.4
47.5°	899.5	886.4	878.4	864.2	862.4
50°	833.2	820.2	813.2	801.1	797.2
52.5°	761.7	748.6	742.7	731.7	727.8
55°	649.0	638.5	634.3	623.5	620.9
57.5°	541.9	534.8	533.6	523.2	522.1
60°	476.7	472.8	472.7	463.4	463.4
62.5°	421.2	418.3	420.4	414.2	413.2
65°	348.5	345.9	349.9	347.2	347.2
67.5°	291.1	291.1	293.5	292.4	292.4
70°	259.1	259.1	260.4	260.4	260.4
72.5°	230.2	229.2	232.6	232.6	231.5
75°	188.3	188.3	188.3	189.6	189.6
77.5°	146.6	146.9	148.0	147.7	146.6
80°	118.8	120.1	120.2	118.8	118.8
82.5°	91.1	92.4	92.4	92.1	91.1
85°	48.1	50.7	53.4	53.4	53.4
87.5°	14.7	20.4	26.1	26.5	25.4
90°	3.9	11.7	23.7	25.6	25.6
92.5°	48.1	170.1	336.2	161.9	112.5
95°	110.5	394.1	1187.8	607.4	420.3
97.5°	176.4	451.1	1862.9	1556.3	1173.6
100°	226.9	473.8	2077.6	2173.8	1803.4
102.5°	275.8	505.8	2148.6	2636.2	2332.1
105°	361.1	561.7	2158.5	3229.3	3030.6
107.5°	441.6	620.6	2066.6	3534.1	3585.4
110°	495.2	665.0	1982.9	3628.7	3815.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	552.1	709.5	1902.4	3607.8	3915.3
115°	637.3	780.1	1797.4	3473.0	3928.3
117.5°	715.0	848.9	1716.2	3258.0	3765.0
120°	765.5	894.8	1675.1	3103.6	3624.5
122.5°	809.7	937.4	1645.1	2945.7	3465.1
125°	870.1	999.4	1613.9	2727.8	3210.1
127.5°	928.1	1055.4	1594.2	2535.7	2966.3
130°	962.8	1090.2	1586.3	2425.6	2803.7
132.5°	997.6	1123.4	1578.4	2328.6	2675.8
135°	1047.7	1169.2	1568.6	2200.6	2491.9
137.5°	1095.4	1212.0	1563.4	2092.1	2331.3
140°	1128.6	1240.5	1558.7	2025.3	2241.4
142.5°	1163.3	1267.5	1555.5	1963.0	2145.1
145°	1211.4	1306.0	1548.8	1881.5	2020.4
147.5°	1263.5	1345.7	1542.1	1812.9	1922.1
150°	1298.3	1369.6	1539.0	1769.9	1860.6
152.5°	1329.8	1391.9	1537.4	1734.8	1808.5
155°	1375.2	1425.4	1535.0	1688.2	1742.2
157.5°	1415.1	1454.0	1535.4	1655.4	1691.7
160°	1440.3	1473.1	1537.0	1636.3	1663.3
162.5°	1462.4	1489.0	1538.6	1620.3	1639.6
165°	1491.6	1509.0	1540.9	1602.3	1610.0
167.5°	1515.3	1525.3	1542.9	1588.4	1591.5
170°	1531.1	1534.9	1542.9	1580.4	1580.4
172.5°	1540.5	1541.3	1544.5	1572.5	1572.5
175°	1550.8	1548.9	1542.9	1564.5	1560.7
177.5°	1555.2	1552.1	1544.1	1556.7	1553.6
180°	1548.8	1548.8	1548.8	1548.8	1548.8

(END OF REPORT)