

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: P563664

Luminaire Tested: **SQ4-PP3-125U-050D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563664
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-050D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

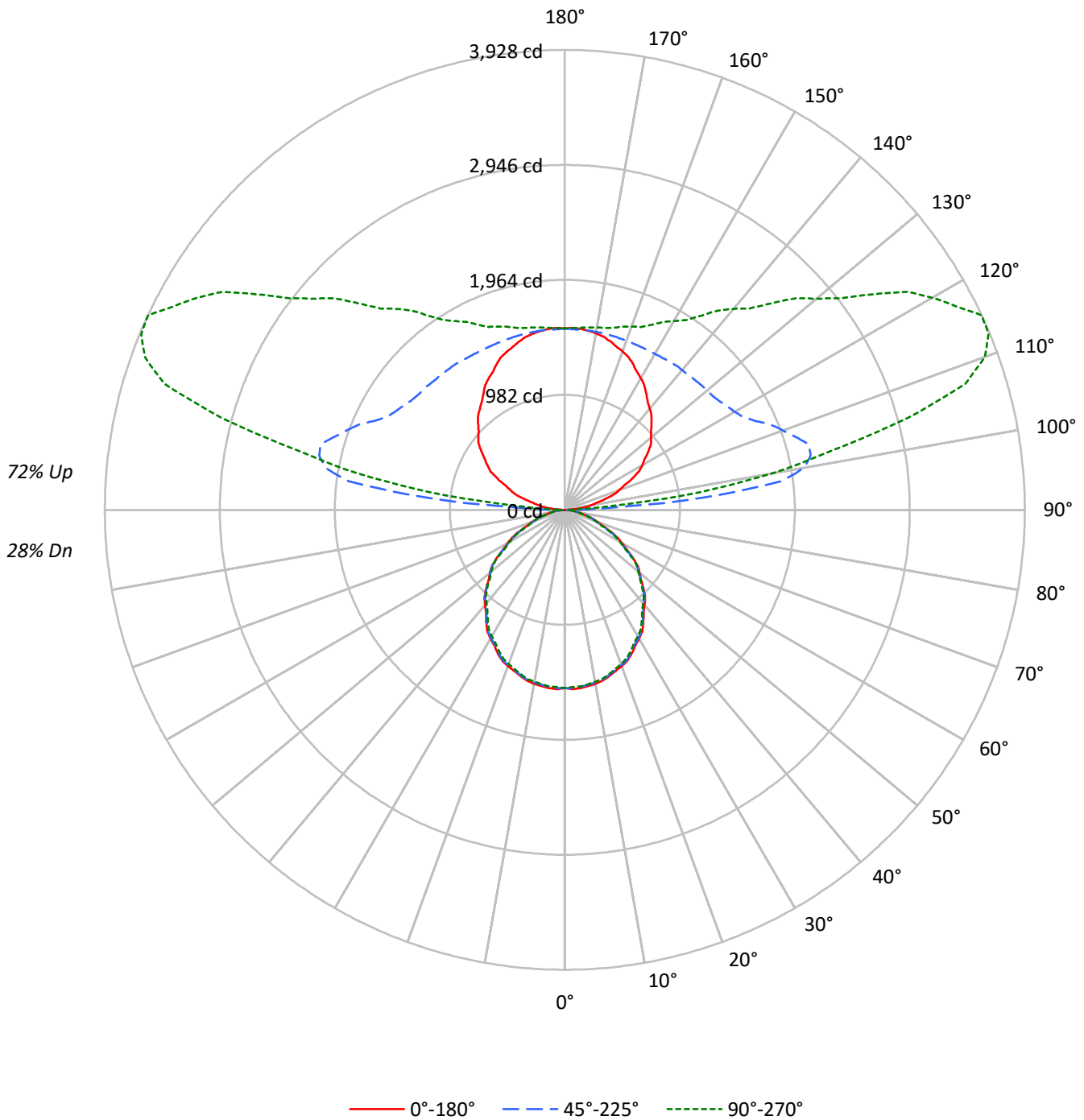
Lumens per Lamp: N/A
Luminaire Lumens: 13901.0 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 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	48	41	39	37	28	27	26	20
3	77	68	61	56	69	61	55	51	48	44	41	36	34	31	25	23	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	21	19	15
5	65	54	46	40	58	48	42	37	38	33	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	34	29	26	26	23	20	18	16	15	11
7	55	43	36	30	49	39	32	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	26	45	35	29	24	28	23	20	22	18	16	15	13	12	9
9	47	35	28	23	42	32	26	22	26	21	18	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7027	7027	7027
5°	7079	7035	7010
10°	7067	7017	6985
15°	7020	6981	6943
20°	6973	6934	6882
25°	6890	6843	6775
30°	6763	6727	6642
35°	6586	6541	6458
40°	6375	6335	6263
45°	6201	6158	6097
50°	5978	5940	5883
55°	5669	5594	5551
60°	5161	5014	4989
65°	4546	4357	4342
70°	3925	3763	3763
75°	3379	3331	3283
80°	2978	3015	2943
85°	2334	2546	2546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.0	1.0
10°-20°	411.3	3.0
20°-30°	616.0	4.4
30°-40°	722.6	5.2
40°-50°	724.8	5.2
50°-60°	618.3	4.4
60°-70°	403.3	2.9
70°-80°	202.3	1.5
80°-90°	59.6	0.4
90°-100°	724.6	5.2
100°-110°	1951.8	14.0
110°-120°	2048.3	14.7
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°	1171.3	8.4
0°-40°	1893.9	13.6
0°-60°	3237.1	23.3
0°-90°	3902.3	28.1
90°-120°	4724.6	34.0
90°-150°	8691.2	62.5
90°-180°	9999.0	71.9
0°-180°	13901.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1523	1523	1523	1523	1523	
5°	1529	1514	1519	1514	1514	145
15°	1470	1456	1462	1456	1454	415
25°	1354	1338	1344	1332	1331	622
35°	1170	1158	1162	1148	1147	731
45°	950	944	944	934	934	732
55°	705	702	696	692	690	626
65°	416	409	399	396	398	416
75°	190	190	187	186	184	206
85°	44	48	48	48	48	52
90°	4	12	24	26	26	9
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°	1523.3	1523.3	1523.3	1523.3	1523.3
2.5°	1532.9	1520.3	1523.3	1521.0	1514.7
5°	1528.6	1514.2	1519.2	1513.9	1513.9
7.5°	1518.2	1502.5	1507.5	1502.2	1501.9
10°	1508.6	1492.9	1497.9	1492.5	1491.2
12.5°	1494.7	1479.0	1485.1	1478.7	1478.4
15°	1469.9	1455.5	1461.8	1456.4	1453.8
17.5°	1441.8	1426.2	1433.8	1426.3	1425.3
20°	1420.5	1404.8	1412.4	1401.8	1401.8
22.5°	1394.8	1379.2	1387.9	1374.0	1374.0
25°	1353.7	1338.0	1344.4	1332.3	1331.0
27.5°	1304.8	1289.4	1296.0	1282.4	1282.1
30°	1269.6	1255.2	1262.9	1248.2	1246.9
32.5°	1231.2	1217.8	1223.4	1208.7	1207.4
35°	1169.5	1157.7	1161.5	1148.1	1146.8
37.5°	1104.6	1092.6	1096.8	1085.4	1084.8
40°	1058.7	1050.8	1052.0	1042.6	1040.0
42.5°	1015.9	1007.1	1008.2	998.8	998.3
45°	950.5	944.0	943.9	934.5	934.5
47.5°	881.1	876.1	874.7	867.0	866.7
50°	833.0	829.1	827.7	821.0	819.7
52.5°	782.9	781.0	776.4	770.8	770.6
55°	704.9	702.3	695.5	691.5	690.2
57.5°	620.2	615.0	607.4	601.6	602.6
60°	559.4	554.2	543.4	540.7	540.7
62.5°	500.6	494.4	483.5	479.9	481.9
65°	416.5	408.7	399.2	396.5	397.8
67.5°	340.2	333.1	322.8	322.8	321.7
70°	291.0	287.1	279.0	279.0	279.0
72.5°	247.2	245.4	239.5	239.5	238.4
75°	189.6	189.6	186.9	185.5	184.2
77.5°	142.0	142.6	141.2	139.9	137.5
80°	112.1	114.8	113.5	112.1	110.8
82.5°	84.4	87.0	86.8	84.4	84.1
85°	44.1	48.0	48.1	48.1	48.1
87.5°	12.5	18.3	21.8	22.2	23.3
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)