

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: P564422

Luminaire Tested: **SQ4-PR1-125U-125D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564422
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-125D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

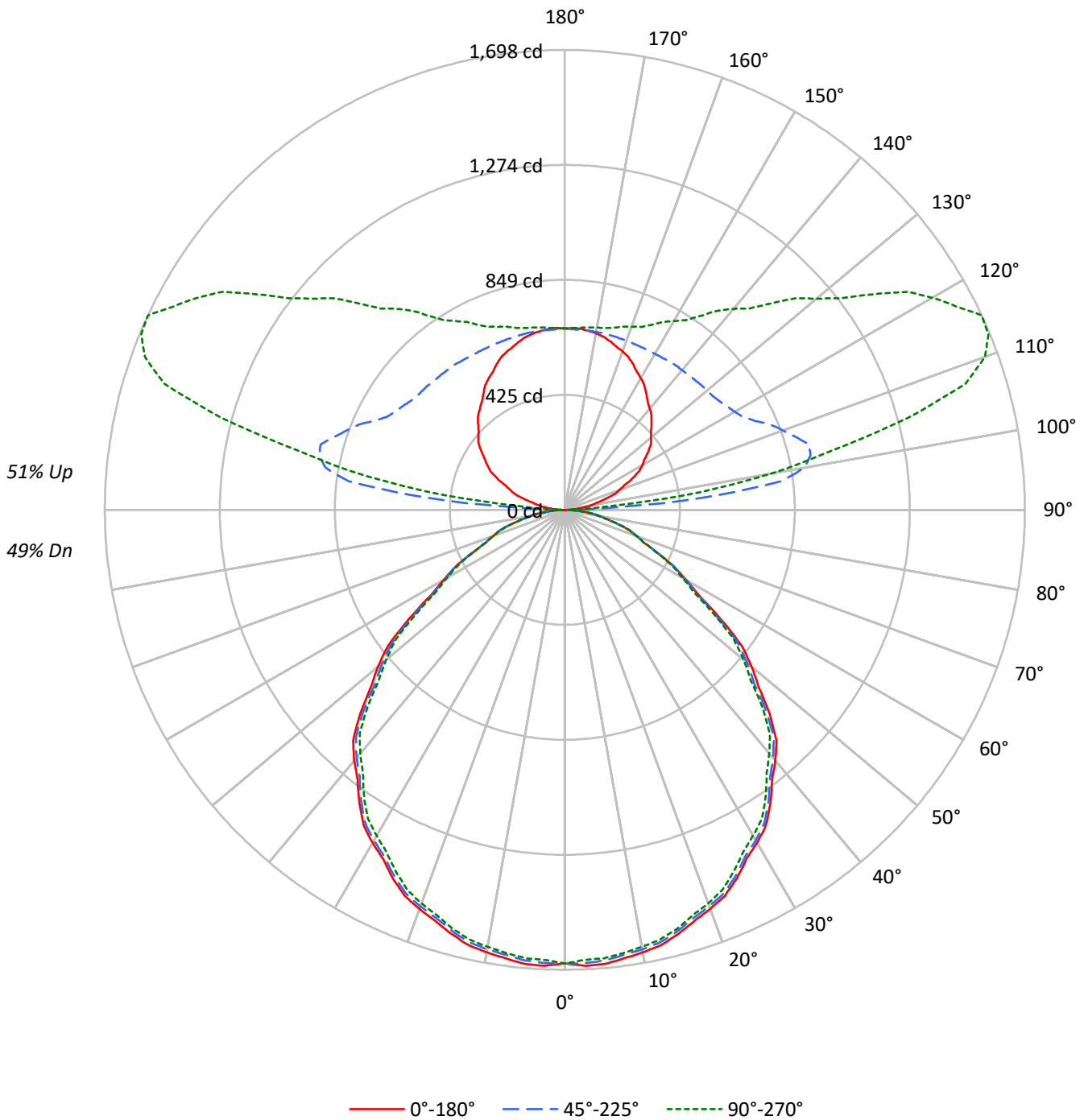
Lumens per Lamp: N/A
Luminaire Lumens: 8509.9 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	55	55	55	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	61	57	54	51	49	44	42	40	36
3	82	72	65	60	75	67	61	56	57	52	48	48	44	41	39	37	35	31
4	75	64	56	51	69	60	53	47	51	46	41	43	39	36	35	32	30	26
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23
6	63	51	43	38	58	48	41	36	41	36	31	35	30	27	29	26	23	20
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15
10	47	35	28	23	44	33	27	22	29	23	20	25	20	18	21	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15451	15451	15451
5°	15590	15470	15390
10°	15541	15433	15351
15°	15473	15376	15293
20°	15394	15295	15182
25°	15286	15183	15007
30°	15122	15014	14799
35°	14898	14768	14556
40°	14559	14402	14142
45°	13965	13720	13438
50°	12920	12609	12360
55°	11276	11022	10788
60°	9503	9422	9235
65°	8219	8250	8187
70°	7548	7588	7588
75°	7251	7251	7301
80°	6822	6896	6822
85°	5494	6108	6108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	1.9
10°-20°	453.1	5.3
20°-30°	683.4	8.0
30°-40°	814.3	9.6
40°-50°	802.8	9.4
50°-60°	613.6	7.2
60°-70°	379.7	4.5
70°-80°	215.7	2.5
80°-90°	67.2	0.8
90°-100°	313.2	3.7
100°-110°	843.6	9.9
110°-120°	885.4	10.4
120°-130°	718.5	8.4
130°-140°	563.5	6.6
140°-150°	432.6	5.1
150°-160°	311.0	3.7
160°-170°	190.0	2.2
170°-180°	64.1	0.8
0°-30°	1294.9	15.2
0°-40°	2109.2	24.8
0°-60°	3525.6	41.4
0°-90°	4188.1	49.2
90°-120°	2042.2	24.0
90°-150°	3756.7	44.1
90°-180°	4322.0	50.8
0°-180°	8509.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1675	1675	1675	1675	1675	
5°	1683	1665	1670	1664	1662	160
15°	1620	1603	1610	1604	1601	457
25°	1502	1483	1492	1476	1474	691
35°	1323	1307	1311	1294	1292	826
45°	1070	1056	1052	1033	1030	820
55°	701	690	685	674	671	628
65°	376	374	378	375	375	381
75°	203	203	203	205	205	215
85°	52	55	58	58	58	60
90°	2	5	10	11	11	5
95°	48	170	513	262	182	50
105°	156	243	933	1396	1310	164
115°	276	337	777	1501	1698	271
125°	376	432	698	1179	1388	336
135°	453	505	678	951	1077	350
145°	524	564	670	813	873	328
155°	594	616	664	730	753	274
165°	645	652	666	693	696	182
175°	670	670	667	676	675	64
180°	670	670	670	670	670	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1674.7	1674.7	1674.7	1674.7	1674.7
2.5°	1685.1	1670.4	1674.7	1671.0	1663.1
5°	1683.3	1665.0	1670.4	1664.5	1661.7
7.5°	1670.4	1652.3	1657.7	1651.9	1650.2
10°	1658.8	1641.9	1647.3	1641.4	1638.6
12.5°	1646.1	1628.1	1634.6	1627.6	1624.8
15°	1619.9	1602.9	1609.8	1603.9	1601.1
17.5°	1591.0	1573.0	1579.8	1573.1	1569.4
20°	1567.9	1551.0	1557.8	1547.7	1546.3
22.5°	1542.6	1525.6	1532.5	1518.9	1518.6
25°	1501.6	1483.3	1491.5	1475.6	1474.2
27.5°	1452.8	1435.9	1442.7	1426.5	1424.9
30°	1419.4	1402.4	1409.3	1391.9	1389.1
32.5°	1381.3	1365.5	1371.2	1353.8	1352.2
35°	1322.7	1307.2	1311.2	1293.8	1292.4
37.5°	1256.1	1242.0	1244.3	1225.2	1223.8
40°	1208.8	1194.7	1195.8	1175.6	1174.2
42.5°	1156.8	1142.7	1141.6	1121.3	1119.9
45°	1070.3	1056.2	1051.5	1032.7	1029.9
47.5°	971.6	957.5	948.8	933.5	931.5
50°	900.1	886.0	878.5	865.4	861.1
52.5°	822.8	808.7	802.3	790.4	786.1
55°	701.0	689.7	685.2	673.6	670.7
57.5°	585.3	577.7	576.4	565.1	564.0
60°	515.0	510.7	510.6	500.5	500.5
62.5°	454.9	451.8	454.1	447.4	446.3
65°	376.5	373.7	377.9	375.0	375.0
67.5°	314.5	314.5	317.1	315.9	315.9
70°	279.8	279.8	281.3	281.3	281.3
72.5°	248.7	247.6	251.3	251.2	250.1
75°	203.4	203.4	203.4	204.8	204.8
77.5°	158.4	158.7	159.8	159.5	158.4
80°	128.4	129.8	129.8	128.4	128.4
82.5°	98.4	99.8	99.8	99.5	98.4
85°	51.9	54.7	57.7	57.7	57.7
87.5°	15.3	20.5	25.1	25.3	24.1
90°	1.7	5.0	10.2	11.1	11.1
92.5°	20.8	73.5	145.3	70.0	48.6
95°	47.8	170.3	513.4	262.5	181.7
97.5°	76.2	195.0	805.2	672.7	507.3
100°	98.1	204.8	898.0	939.6	779.5
102.5°	119.2	218.6	928.7	1139.5	1008.0
105°	156.1	242.8	933.0	1395.8	1309.9
107.5°	190.9	268.2	893.3	1527.6	1549.8
110°	214.1	287.4	857.1	1568.5	1649.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	238.6	306.7	822.3	1559.4	1692.4
115°	275.5	337.2	776.9	1501.2	1698.0
117.5°	309.1	366.9	741.8	1408.2	1627.4
120°	330.9	386.8	724.1	1341.5	1566.6
122.5°	350.0	405.2	711.1	1273.3	1497.7
125°	376.1	432.0	697.6	1179.1	1387.6
127.5°	401.2	456.2	689.1	1096.0	1282.1
130°	416.2	471.2	685.7	1048.4	1211.9
132.5°	431.2	485.6	682.3	1006.5	1156.6
135°	452.9	505.4	678.0	951.2	1077.1
137.5°	473.5	523.9	675.8	904.3	1007.7
140°	487.8	536.2	673.7	875.4	968.8
142.5°	502.8	547.9	672.4	848.5	927.2
145°	523.6	564.5	669.5	813.3	873.3
147.5°	546.2	581.7	666.6	783.6	830.8
150°	561.2	592.0	665.2	765.0	804.2
152.5°	574.8	601.7	664.5	749.8	781.7
155°	594.4	616.1	663.5	729.7	753.0
157.5°	611.6	628.5	663.7	715.5	731.2
160°	622.6	636.7	664.4	707.3	718.9
162.5°	632.1	643.6	665.0	700.4	708.7
165°	644.7	652.2	666.1	692.6	695.9
167.5°	655.0	659.3	666.9	686.6	687.9
170°	661.8	663.5	666.9	683.1	683.1
172.5°	665.9	666.2	667.6	679.7	679.7
175°	670.3	669.5	666.9	676.3	674.6
177.5°	672.2	670.9	667.4	672.9	671.5
180°	669.5	669.5	669.5	669.5	669.5

(END OF REPORT)