

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: P564396

Luminaire Tested: **SQ4-PR1-125U-100D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564396
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-100D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

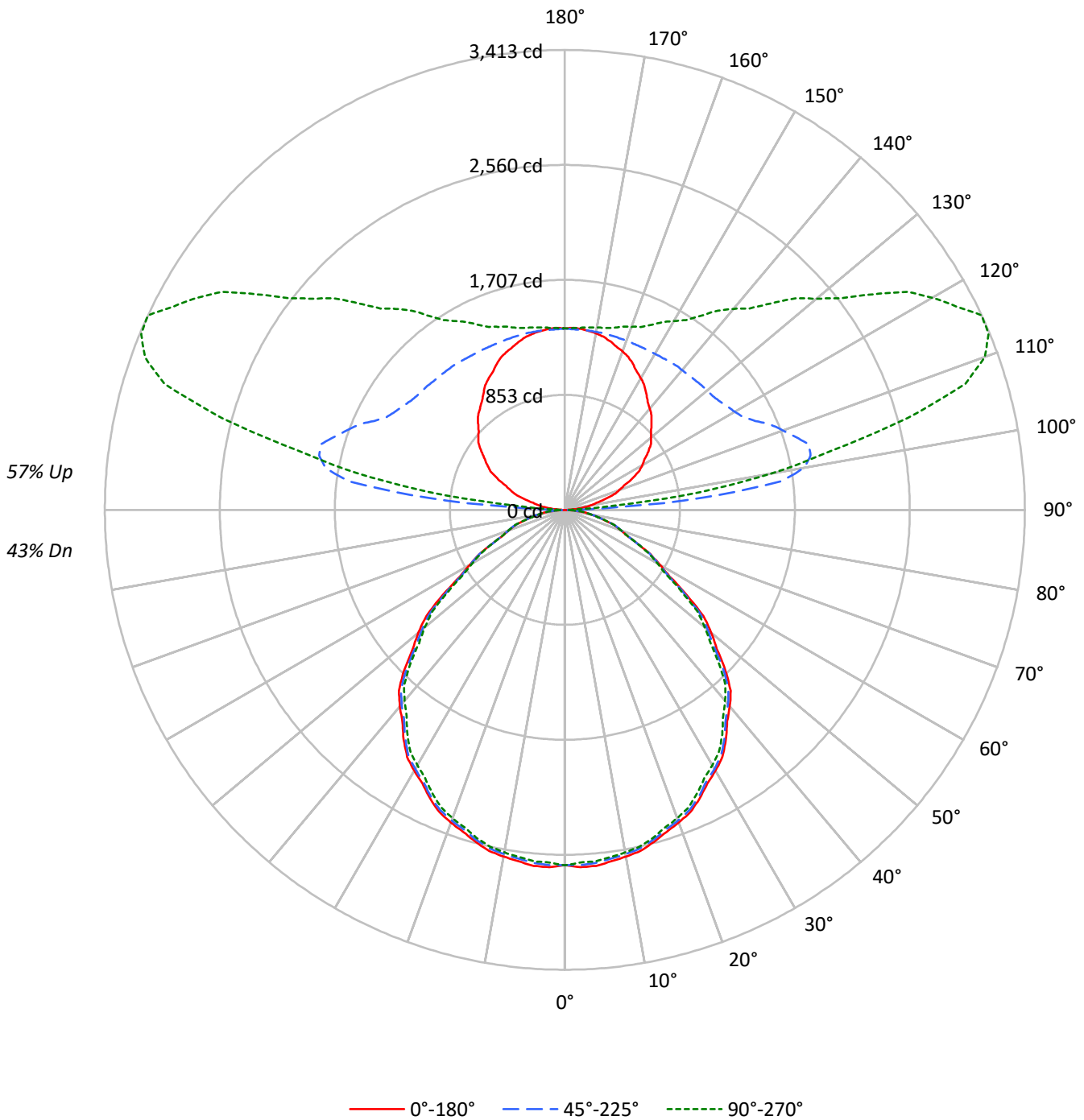
Lumens per Lamp: N/A
Luminaire Lumens: 15285.7 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 133.3
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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50	43	43	43	43
1	96	92	89	85	88	85	81	78	70	68	66	57	55	54	44	43	43	37	37	37	37
2	88	81	75	70	80	74	69	65	62	58	55	50	48	45	39	38	36	31	31	31	31
3	80	71	64	59	73	65	59	54	55	50	46	44	41	39	35	33	31	27	27	27	27
4	74	63	55	50	67	58	51	46	49	44	40	40	36	33	31	29	27	23	23	23	23
5	68	56	48	43	62	52	45	40	44	38	34	36	32	29	28	26	24	20	20	20	20
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	26	23	21	18	18	18	18
7	58	46	38	32	53	42	35	30	36	30	26	29	25	22	24	21	19	16	16	16	16
8	53	41	34	29	49	38	32	27	32	27	23	27	23	20	22	19	17	14	14	14	14
9	50	38	30	25	45	35	28	24	30	25	21	25	21	18	20	17	15	13	13	13	13
10	46	35	27	23	42	32	26	21	27	22	19	23	19	16	19	16	14	12	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12169	12169	12169
5°	12279	12184	12121
10°	12240	12155	12091
15°	12186	12111	12045
20°	12125	12047	11958
25°	12040	11958	11820
30°	11910	11825	11655
35°	11734	11631	11465
40°	11466	11343	11138
45°	10999	10806	10584
50°	10175	9931	9735
55°	8882	8680	8498
60°	7484	7422	7275
65°	6473	6498	6449
70°	5945	5976	5976
75°	5711	5711	5752
80°	5372	5433	5372
85°	4330	4811	4811



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.5	1.6
10°-20°	713.7	4.7
20°-30°	1076.5	7.0
30°-40°	1282.7	8.4
40°-50°	1264.6	8.3
50°-60°	966.5	6.3
60°-70°	598.1	3.9
70°-80°	339.7	2.2
80°-90°	106.5	0.7
90°-100°	629.6	4.1
100°-110°	1695.9	11.1
110°-120°	1779.8	11.6
120°-130°	1444.2	9.4
130°-140°	1132.7	7.4
140°-150°	869.6	5.7
150°-160°	625.2	4.1
160°-170°	382.0	2.5
170°-180°	128.8	0.8
0°-30°	2039.8	13.3
0°-40°	3322.5	21.7
0°-60°	5553.6	36.3
0°-90°	6597.9	43.2
90°-120°	4105.2	26.9
90°-150°	7551.7	49.4
90°-180°	8688.0	56.8
0°-180°	15285.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2638	2638	2638	2638	2638	
5°	2652	2623	2631	2622	2618	252
15°	2552	2525	2536	2527	2522	720
25°	2365	2336	2349	2324	2322	1089
35°	2084	2059	2065	2038	2036	1300
45°	1686	1664	1656	1627	1622	1292
55°	1104	1086	1079	1061	1057	989
65°	593	589	595	591	591	601
75°	320	320	320	323	323	338
85°	82	86	91	91	91	95
90°	3	10	21	22	22	10
95°	96	342	1032	528	365	100
105°	314	488	1876	2806	2633	330
115°	554	678	1562	3018	3413	545
125°	756	868	1402	2370	2789	675
135°	910	1016	1363	1912	2165	703
145°	1053	1135	1346	1635	1756	660
155°	1195	1238	1334	1467	1514	550
165°	1296	1311	1339	1392	1399	365
175°	1348	1346	1341	1359	1356	128
180°	1346	1346	1346	1346	1346	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2638.0	2638.0	2638.0	2638.0	2638.0
2.5°	2654.4	2631.3	2638.0	2632.3	2619.8
5°	2651.7	2622.8	2631.2	2622.0	2617.6
7.5°	2631.2	2602.8	2611.2	2602.1	2599.4
10°	2613.0	2586.4	2594.8	2585.7	2581.2
12.5°	2593.0	2564.6	2574.9	2563.8	2559.4
15°	2551.7	2525.0	2535.8	2526.6	2522.1
17.5°	2506.2	2477.8	2488.5	2477.9	2472.1
20°	2469.9	2443.2	2454.0	2438.0	2435.8
22.5°	2429.9	2403.2	2414.0	2392.6	2392.2
25°	2365.4	2336.5	2349.4	2324.4	2322.2
27.5°	2288.6	2261.9	2272.6	2247.1	2244.5
30°	2235.8	2209.2	2219.9	2192.6	2188.1
32.5°	2175.9	2151.0	2159.9	2132.6	2130.0
35°	2083.6	2059.2	2065.4	2038.1	2035.9
37.5°	1978.6	1956.4	1960.0	1930.0	1927.7
40°	1904.1	1881.9	1883.6	1851.8	1849.6
42.5°	1822.3	1800.1	1798.2	1766.4	1764.1
45°	1686.0	1663.8	1656.4	1626.8	1622.3
47.5°	1530.6	1508.3	1494.6	1470.5	1467.4
50°	1417.8	1395.6	1383.8	1363.2	1356.5
52.5°	1296.1	1273.8	1263.8	1245.0	1238.3
55°	1104.3	1086.5	1079.3	1061.0	1056.6
57.5°	922.1	910.1	908.0	890.2	888.4
60°	811.2	804.5	804.4	788.5	788.5
62.5°	716.7	711.8	715.3	704.8	703.0
65°	593.0	588.6	595.3	590.8	590.8
67.5°	495.3	495.3	499.4	497.6	497.6
70°	440.8	440.8	443.1	443.1	443.1
72.5°	391.7	389.9	395.8	395.8	394.0
75°	320.4	320.4	320.4	322.7	322.7
77.5°	249.5	249.9	251.8	251.3	249.5
80°	202.2	204.4	204.5	202.2	202.2
82.5°	155.0	157.2	157.2	156.7	155.0
85°	81.8	86.2	90.9	90.9	90.9
87.5°	24.3	32.8	40.5	40.8	39.0
90°	3.4	10.1	20.6	22.3	22.3
92.5°	41.8	147.8	292.1	140.6	97.7
95°	96.0	342.4	1032.0	527.8	365.2
97.5°	153.3	392.0	1618.7	1352.3	1019.7
100°	197.2	411.7	1805.2	1888.8	1566.9
102.5°	239.7	439.5	1866.9	2290.6	2026.4
105°	313.7	488.1	1875.5	2805.9	2633.3
107.5°	383.7	539.2	1795.6	3070.7	3115.3
110°	430.3	577.8	1722.9	3153.0	3315.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	479.7	616.5	1653.0	3134.8	3402.0
115°	553.7	677.8	1561.8	3017.7	3413.3
117.5°	621.3	737.6	1491.2	2830.8	3271.3
120°	665.2	777.5	1455.5	2696.7	3149.3
122.5°	703.6	814.5	1429.4	2559.5	3010.8
125°	756.0	868.3	1402.3	2370.2	2789.3
127.5°	806.4	917.1	1385.2	2203.2	2577.4
130°	836.6	947.2	1378.3	2107.6	2436.1
132.5°	866.8	976.1	1371.5	2023.3	2325.0
135°	910.3	1015.9	1362.9	1912.1	2165.2
137.5°	951.8	1053.1	1358.5	1817.8	2025.7
140°	980.6	1077.8	1354.3	1759.8	1947.5
142.5°	1010.8	1101.3	1351.6	1705.6	1863.9
145°	1052.6	1134.8	1345.8	1634.8	1755.5
147.5°	1097.9	1169.3	1339.9	1575.3	1670.1
150°	1128.0	1190.1	1337.2	1537.9	1616.6
152.5°	1155.5	1209.5	1335.8	1507.3	1571.4
155°	1194.9	1238.5	1333.8	1466.8	1513.8
157.5°	1229.5	1263.4	1334.1	1438.4	1469.9
160°	1251.5	1280.0	1335.5	1421.7	1445.2
162.5°	1270.7	1293.8	1336.9	1407.9	1424.6
165°	1296.1	1311.1	1338.9	1392.2	1398.9
167.5°	1316.6	1325.3	1340.6	1380.1	1382.8
170°	1330.3	1333.7	1340.6	1373.2	1373.2
172.5°	1338.6	1339.2	1342.0	1366.3	1366.3
175°	1347.5	1345.8	1340.6	1359.4	1356.1
177.5°	1351.3	1348.6	1341.7	1352.6	1349.9
180°	1345.8	1345.8	1345.8	1345.8	1345.8

(END OF REPORT)