

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: P564420

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564420
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-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

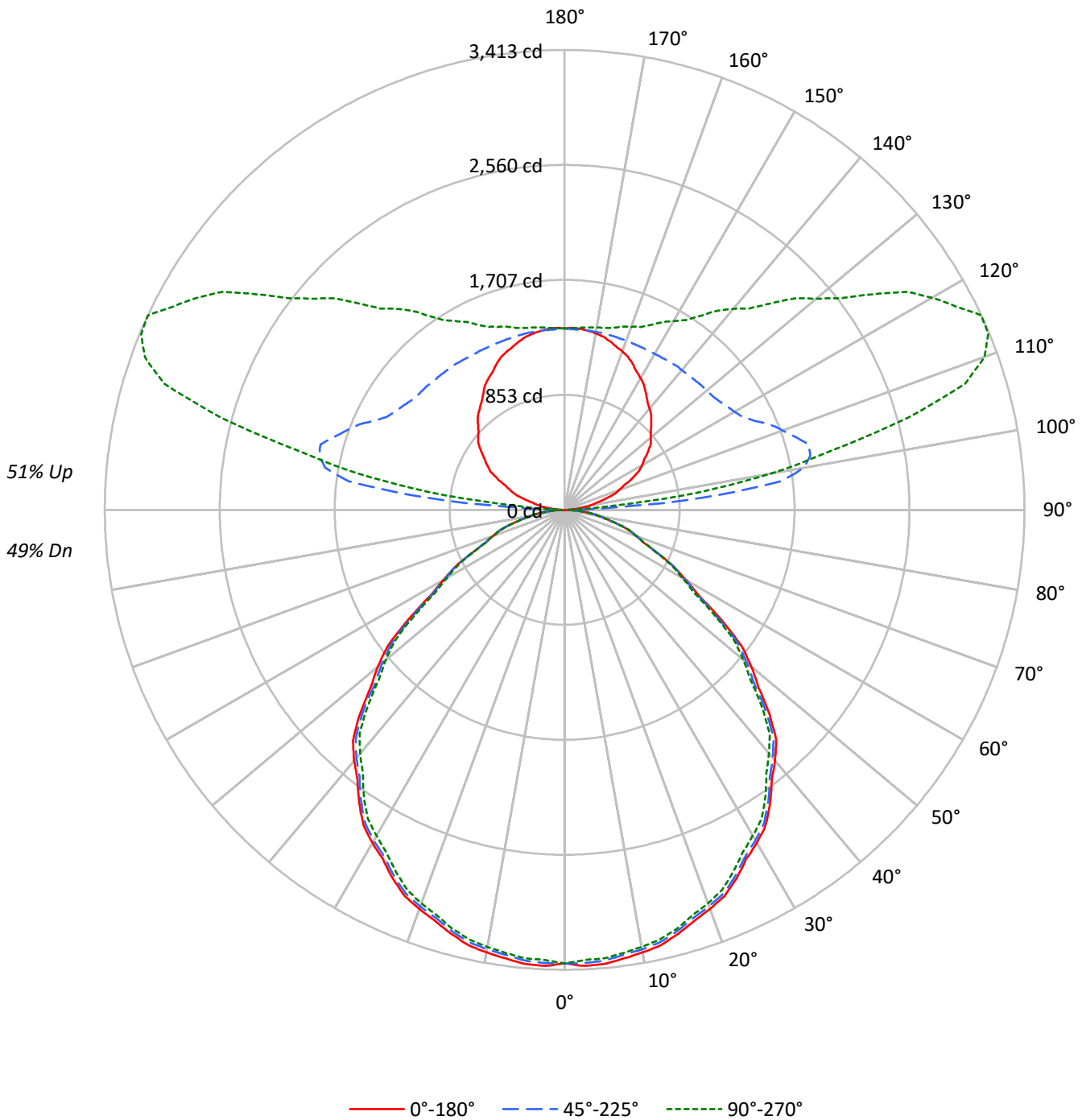
Lumens per Lamp: N/A
Luminaire Lumens: 17106.7 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 152.7
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	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°	15530	15530	15530
5°	15670	15549	15468
10°	15620	15511	15430
15°	15552	15455	15371
20°	15473	15374	15260
25°	15364	15261	15084
30°	15198	15090	14874
35°	14974	14844	14631
40°	14633	14476	14214
45°	14036	13790	13506
50°	12986	12673	12424
55°	11334	11077	10844
60°	9551	9471	9283
65°	8261	8293	8229
70°	7587	7626	7626
75°	7286	7286	7338
80°	6857	6934	6857
85°	5526	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.4	1.9
10°-20°	910.8	5.3
20°-30°	1373.8	8.0
30°-40°	1636.9	9.6
40°-50°	1613.8	9.4
50°-60°	1233.4	7.2
60°-70°	763.3	4.5
70°-80°	433.5	2.5
80°-90°	135.0	0.8
90°-100°	629.6	3.7
100°-110°	1695.9	9.9
110°-120°	1779.8	10.4
120°-130°	1444.2	8.4
130°-140°	1132.7	6.6
140°-150°	869.6	5.1
150°-160°	625.2	3.7
160°-170°	382.0	2.2
170°-180°	128.8	0.8
0°-30°	2603.0	15.2
0°-40°	4239.9	24.8
0°-60°	7087.1	41.4
0°-90°	8418.9	49.2
90°-120°	4105.2	24.0
90°-150°	7551.7	44.1
90°-180°	8688.0	50.8
0°-180°	17106.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3366	3366	3366	3366	3366	
5°	3384	3347	3358	3346	3340	321
15°	3256	3222	3236	3224	3219	919
25°	3018	2982	2998	2966	2963	1389
35°	2659	2628	2636	2601	2598	1660
45°	2152	2123	2114	2076	2070	1648
55°	1409	1386	1377	1354	1348	1263
65°	757	751	760	754	754	767
75°	409	409	409	412	412	432
85°	104	110	116	116	116	121
90°	3	10	21	22	22	11
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°	3366.5	3366.5	3366.5	3366.5	3366.5
2.5°	3387.3	3357.9	3366.5	3359.1	3343.3
5°	3383.9	3347.0	3357.8	3346.0	3340.4
7.5°	3357.8	3321.5	3332.2	3320.6	3317.2
10°	3334.6	3300.5	3311.4	3299.6	3294.0
12.5°	3309.1	3272.8	3285.9	3271.8	3266.1
15°	3256.3	3222.3	3236.0	3224.3	3218.6
17.5°	3198.3	3162.0	3175.7	3162.2	3154.8
20°	3151.9	3117.9	3131.6	3111.2	3108.4
22.5°	3100.9	3066.8	3080.6	3053.3	3052.7
25°	3018.5	2981.7	2998.2	2966.3	2963.4
27.5°	2920.5	2886.5	2900.2	2867.7	2864.2
30°	2853.2	2819.2	2832.9	2798.0	2792.3
32.5°	2776.7	2744.9	2756.4	2721.5	2718.1
35°	2659.0	2627.8	2635.8	2600.9	2598.1
37.5°	2525.0	2496.6	2501.2	2462.9	2460.0
40°	2429.9	2401.5	2403.8	2363.1	2360.3
42.5°	2325.5	2297.1	2294.8	2254.1	2251.3
45°	2151.5	2123.2	2113.8	2076.0	2070.3
47.5°	1953.2	1924.8	1907.4	1876.5	1872.6
50°	1809.4	1781.0	1765.9	1739.6	1731.1
52.5°	1653.9	1625.6	1612.8	1588.8	1580.3
55°	1409.2	1386.5	1377.3	1354.0	1348.3
57.5°	1176.7	1161.4	1158.7	1136.0	1133.8
60°	1035.2	1026.7	1026.5	1006.2	1006.2
62.5°	914.5	908.3	912.8	899.4	897.1
65°	756.8	751.1	759.7	753.9	753.9
67.5°	632.1	632.1	637.3	635.0	635.0
70°	562.5	562.5	565.4	565.4	565.4
72.5°	499.9	497.6	505.1	505.1	502.8
75°	408.8	408.8	408.8	411.7	411.7
77.5°	318.4	318.9	321.3	320.6	318.4
80°	258.1	260.9	261.0	258.1	258.1
82.5°	197.8	200.6	200.7	200.0	197.8
85°	104.4	110.1	116.0	116.0	116.0
87.5°	30.8	41.3	50.5	50.8	48.5
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)