

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: P520334

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

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520334
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G3-1910-536-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-125U-100D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

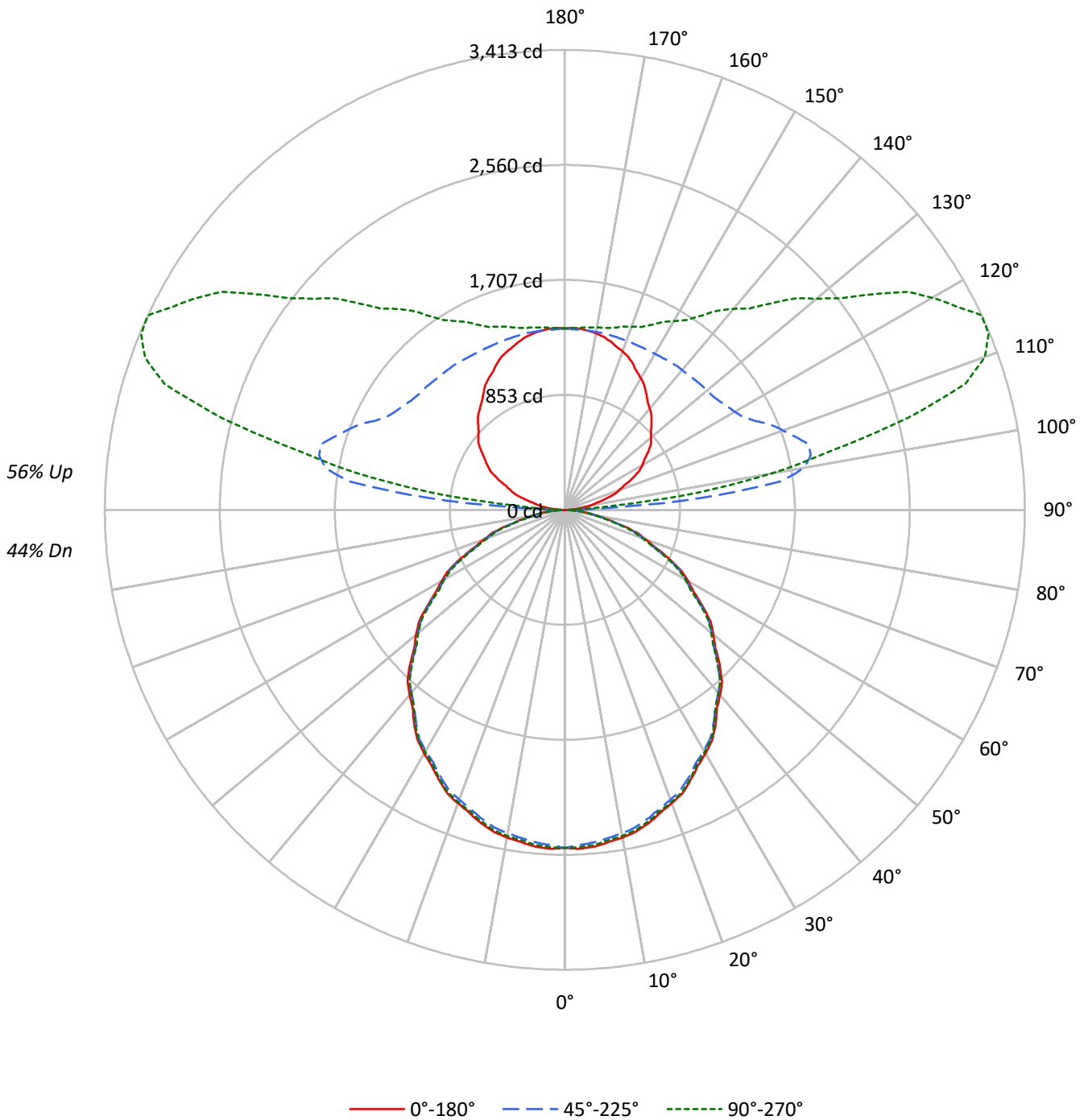
Lumens per Lamp: N/A
Luminaire Lumens: 15533.3 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 123.2
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	45	44	43	37
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	38	36	31
3	80	71	63	57	73	65	59	53	54	49	45	44	41	38	35	32	30	26
4	73	62	54	48	67	57	50	45	48	43	39	39	35	32	31	28	26	22
5	67	55	47	41	61	51	44	39	43	37	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	33	38	33	29	32	28	24	25	22	20	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	21	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	22	26	22	19	21	18	16	13
9	49	37	30	24	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11573	11573	11573
5°	11625	11466	11554
10°	11566	11421	11509
15°	11496	11340	11430
20°	11377	11242	11335
25°	11253	11122	11209
30°	11116	10997	11052
35°	10976	10841	10899
40°	10794	10670	10680
45°	10604	10458	10425
50°	10331	10207	10182
55°	10027	9916	9847
60°	9722	9547	9515
65°	9248	9040	8965
70°	8593	8383	8222
75°	7671	7425	7274
80°	6312	6084	5810
85°	3732	4102	4192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.8	1.5
10°-20°	674.3	4.3
20°-30°	1012.6	6.5
30°-40°	1208.4	7.8
40°-50°	1238.6	8.0
50°-60°	1103.0	7.1
60°-70°	822.2	5.3
70°-80°	445.2	2.9
80°-90°	104.5	0.7
90°-100°	629.6	4.1
100°-110°	1695.9	10.9
110°-120°	1779.8	11.5
120°-130°	1444.2	9.3
130°-140°	1132.7	7.3
140°-150°	869.6	5.6
150°-160°	625.2	4.0
160°-170°	382.0	2.5
170°-180°	128.8	0.8
0°-30°	1923.6	12.4
0°-40°	3132.0	20.2
0°-60°	5473.7	35.2
0°-90°	6845.5	44.1
90°-120°	4105.2	26.4
90°-150°	7551.7	48.6
90°-180°	8688.0	55.9
0°-180°	15533.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2509	2509	2509	2509	2509	
5°	2510	2505	2476	2498	2495	238
15°	2407	2399	2374	2393	2393	678
25°	2211	2206	2185	2197	2202	1019
35°	1949	1941	1925	1929	1935	1217
45°	1625	1617	1603	1594	1598	1251
55°	1247	1248	1233	1221	1224	1116
65°	847	844	828	820	821	838
75°	430	425	417	408	408	458
85°	70	77	78	79	79	99
90°	4	10	20	22	22	8
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°	2508.8	2508.8	2508.8	2508.8	2508.8
2.5°	2518.4	2512.9	2490.8	2508.7	2506.0
5°	2510.4	2505.4	2476.0	2498.4	2495.0
7.5°	2487.1	2482.0	2456.1	2476.7	2473.6
10°	2469.1	2464.1	2438.1	2458.7	2457.0
12.5°	2445.7	2440.7	2414.7	2435.3	2433.7
15°	2407.1	2398.7	2374.4	2393.3	2393.3
17.5°	2356.2	2349.7	2327.2	2343.1	2343.4
20°	2317.6	2312.6	2290.1	2307.3	2309.0
22.5°	2279.0	2273.9	2248.7	2264.6	2267.7
25°	2210.8	2205.8	2185.1	2197.1	2202.2
27.5°	2140.6	2133.1	2112.7	2123.4	2127.2
30°	2086.9	2083.5	2064.5	2069.7	2074.8
32.5°	2030.4	2027.0	2010.8	2013.4	2022.5
35°	1949.1	1940.7	1925.0	1928.6	1935.4
37.5°	1853.0	1849.0	1833.7	1831.8	1838.3
40°	1792.4	1785.7	1771.8	1768.4	1773.5
42.5°	1726.3	1719.6	1702.9	1699.6	1706.0
45°	1625.4	1617.0	1603.1	1594.5	1597.9
47.5°	1512.5	1512.5	1498.0	1488.1	1493.2
50°	1439.5	1439.5	1422.2	1413.7	1418.8
52.5°	1363.7	1365.1	1346.4	1342.0	1340.3
55°	1246.7	1248.3	1232.9	1220.9	1224.3
57.5°	1133.7	1129.9	1112.0	1104.1	1105.8
60°	1053.7	1048.7	1034.8	1022.9	1031.3
62.5°	972.5	970.1	956.3	942.9	941.9
65°	847.2	843.8	828.2	819.6	821.3
67.5°	722.5	718.4	704.3	691.9	696.4
70°	637.1	637.1	621.5	614.6	609.6
72.5°	558.5	551.8	540.3	530.6	526.9
75°	430.4	425.4	416.6	408.1	408.1
77.5°	313.4	309.0	303.4	297.5	295.9
80°	237.6	235.9	229.0	227.1	218.7
82.5°	167.3	167.1	162.9	158.4	158.0
85°	70.5	77.3	77.5	79.2	79.2
87.5°	13.1	22.5	23.4	21.0	21.0
90°	3.5	10.2	20.5	22.3	22.3
92.5°	41.8	147.8	292.2	140.6	97.7
95°	96.0	342.4	1032.0	527.8	365.2
97.5°	153.2	391.9	1618.7	1352.3	1019.7
100°	197.1	411.8	1805.2	1888.8	1566.9
102.5°	239.7	439.5	1867.0	2290.6	2026.4
105°	313.8	488.0	1875.6	2805.9	2633.2
107.5°	383.6	539.2	1795.6	3070.8	3115.4
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°	479.6	616.5	1652.9	3134.8	3402.0
115°	553.7	677.8	1561.8	3017.7	3413.2
117.5°	621.2	737.6	1491.1	2830.8	3271.4
120°	665.1	777.4	1455.5	2696.7	3149.3
122.5°	703.5	814.5	1429.5	2559.5	3010.8
125°	756.0	868.3	1402.3	2370.2	2789.2
127.5°	806.4	917.1	1385.3	2203.2	2577.4
130°	836.6	947.2	1378.3	2107.5	2436.1
132.5°	866.7	976.1	1371.5	2023.3	2325.0
135°	910.3	1015.9	1363.0	1912.2	2165.3
137.5°	951.8	1053.0	1358.4	1817.8	2025.7
140°	980.6	1077.8	1354.4	1759.8	1947.5
142.5°	1010.8	1101.3	1351.6	1705.6	1863.8
145°	1052.6	1134.7	1345.8	1634.8	1755.5
147.5°	1097.9	1169.3	1340.0	1575.3	1670.1
150°	1128.0	1190.1	1337.2	1537.9	1616.6
152.5°	1155.4	1209.4	1335.8	1507.3	1571.3
155°	1194.9	1238.5	1333.7	1466.9	1513.8
157.5°	1229.5	1263.4	1334.1	1438.3	1469.9
160°	1251.5	1280.0	1335.5	1421.8	1445.2
162.5°	1270.7	1293.8	1336.9	1407.8	1424.6
165°	1296.1	1311.1	1338.9	1392.3	1399.0
167.5°	1316.7	1325.4	1340.7	1380.1	1382.8
170°	1330.4	1333.7	1340.7	1373.2	1373.2
172.5°	1338.6	1339.3	1342.0	1366.3	1366.3
175°	1347.5	1345.8	1340.7	1359.4	1356.0
177.5°	1351.3	1348.5	1341.6	1352.6	1349.9
180°	1345.8	1345.8	1345.8	1345.8	1345.8

(END OF REPORT)