

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: P565076

Luminaire Tested: **SQ4-PW1-125U-125D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565076
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-125U-125D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

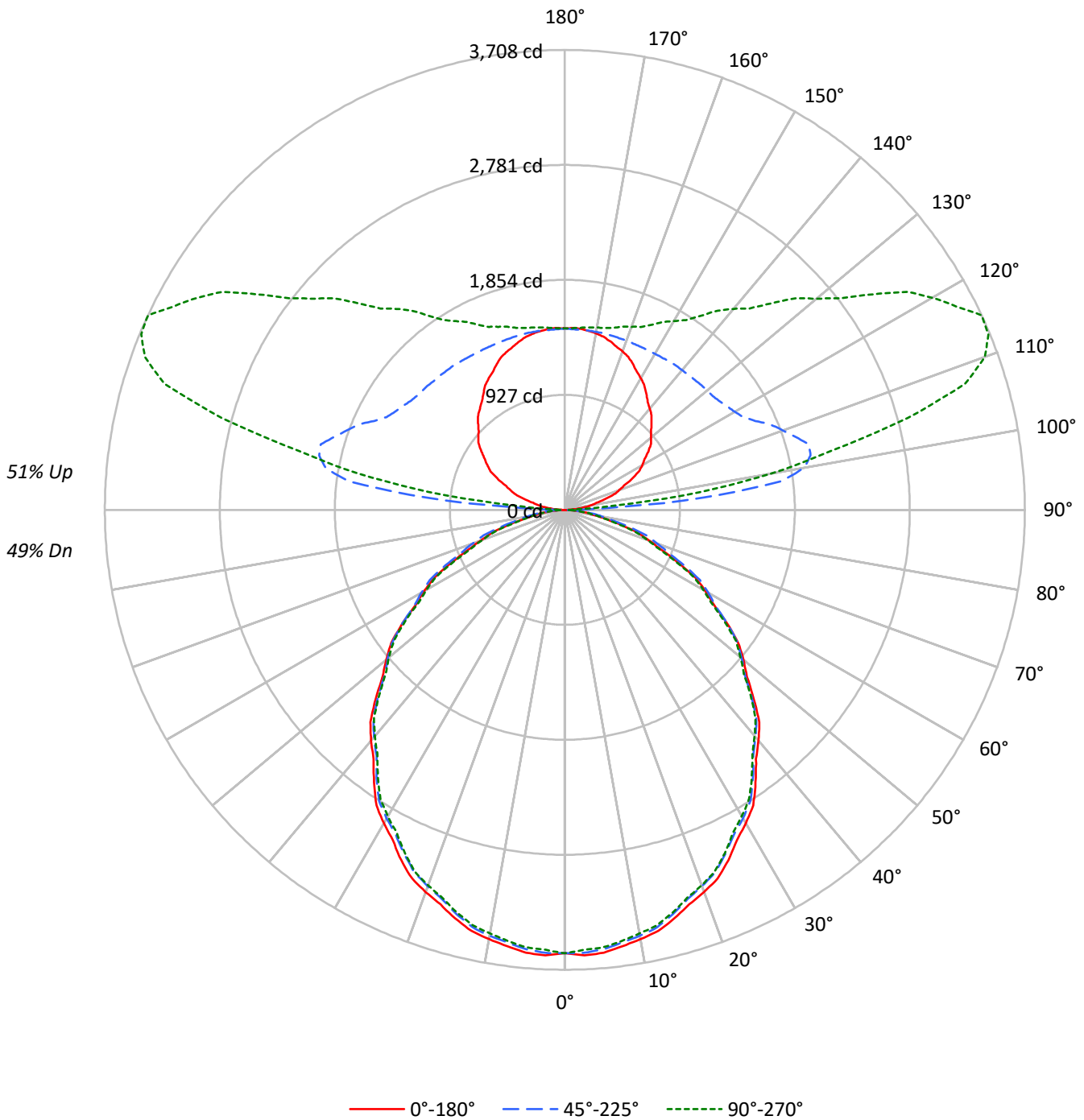
Lumens per Lamp: N/A
Luminaire Lumens: 18537.2 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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	0
RCR																		
0	107	107	107	107	99	99	99	99	83	83	83	68	68	68	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	50	48	43	41	40	35
3	81	72	65	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	53	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	31	37	31	27	31	27	23	26	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	15
9	50	38	31	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16493	16493	16493
5°	16599	16468	16395
10°	16467	16334	16246
15°	16292	16112	16052
20°	16098	15850	15819
25°	15873	15584	15536
30°	15537	15302	15201
35°	15096	14883	14794
40°	14625	14397	14340
45°	14056	13871	13809
50°	13474	13360	13270
55°	12844	12844	12642
60°	12060	12293	11858
65°	11037	11587	10762
70°	9729	10663	9474
75°	8309	9545	8085
80°	6442	8033	6527
85°	4166	6166	5499



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.7	1.8
10°-20°	950.5	5.1
20°-30°	1409.9	7.6
30°-40°	1649.7	8.9
40°-50°	1642.3	8.9
50°-60°	1418.2	7.7
60°-70°	1020.9	5.5
70°-80°	535.3	2.9
80°-90°	136.1	0.7
90°-100°	683.9	3.7
100°-110°	1842.3	9.9
110°-120°	1933.4	10.4
120°-130°	1568.9	8.5
130°-140°	1230.4	6.6
140°-150°	944.7	5.1
150°-160°	679.2	3.7
160°-170°	415.0	2.2
170°-180°	139.9	0.8
0°-30°	2697.0	14.5
0°-40°	4346.7	23.4
0°-60°	7407.2	40.0
0°-90°	9099.6	49.1
90°-120°	4459.5	24.1
90°-150°	8203.5	44.3
90°-180°	9438.0	50.9
0°-180°	18537.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3575	3575	3575	3575	3575	
5°	3585	3545	3556	3547	3540	340
15°	3411	3368	3374	3367	3361	962
25°	3118	3066	3062	3043	3052	1434
35°	2681	2644	2643	2618	2627	1676
45°	2154	2136	2126	2120	2117	1662
55°	1597	1594	1597	1575	1572	1425
65°	1011	1042	1062	1020	986	1002
75°	466	509	536	500	454	500
85°	79	103	116	110	104	104
90°	4	11	22	24	24	10
95°	104	372	1121	573	397	109
105°	341	530	2037	3048	2861	358
115°	602	736	1697	3278	3708	592
125°	821	943	1523	2575	3030	733
135°	989	1104	1481	2077	2352	763
145°	1144	1233	1462	1776	1907	717
155°	1298	1345	1449	1594	1644	598
165°	1408	1424	1454	1512	1520	397
175°	1464	1462	1456	1477	1473	139
180°	1462	1462	1462	1462	1462	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3575.2	3575.2	3575.2	3575.2	3575.2
2.5°	3595.3	3565.7	3575.2	3567.2	3550.0
5°	3584.6	3544.6	3556.3	3546.7	3540.5
7.5°	3548.1	3511.1	3519.7	3509.6	3505.9
10°	3515.3	3478.4	3487.0	3474.2	3468.1
12.5°	3477.5	3438.1	3446.6	3434.0	3430.3
15°	3411.4	3368.2	3373.6	3367.1	3361.0
17.5°	3334.5	3290.8	3291.7	3281.6	3280.3
20°	3279.1	3232.9	3228.7	3216.2	3222.4
22.5°	3218.6	3169.9	3165.7	3148.2	3156.8
25°	3118.4	3066.1	3061.7	3043.0	3052.3
27.5°	3002.5	2950.8	2950.8	2924.6	2934.5
30°	2916.8	2867.5	2872.7	2841.5	2853.8
32.5°	2826.1	2781.8	2784.5	2753.3	2765.6
35°	2680.6	2643.6	2642.8	2617.8	2627.0
37.5°	2531.9	2499.3	2494.1	2479.7	2482.1
40°	2428.6	2400.9	2390.8	2381.3	2381.3
42.5°	2320.2	2295.0	2285.0	2278.0	2275.5
45°	2154.5	2136.1	2126.2	2119.8	2116.7
47.5°	1990.7	1973.5	1964.9	1960.4	1957.4
50°	1877.4	1865.0	1861.6	1852.1	1849.0
52.5°	1764.0	1756.6	1753.2	1741.2	1738.1
55°	1597.0	1593.9	1597.0	1574.9	1571.8
57.5°	1423.1	1428.1	1438.3	1408.5	1401.1
60°	1307.2	1319.5	1332.4	1297.5	1285.2
62.5°	1188.8	1208.5	1226.6	1186.5	1169.2
65°	1011.1	1041.9	1061.5	1019.8	985.9
67.5°	839.8	878.0	901.5	856.5	818.3
70°	721.3	764.5	790.6	745.6	702.4
72.5°	618.0	666.1	687.3	644.8	601.6
75°	466.2	509.3	535.5	499.8	453.6
77.5°	330.7	371.4	393.1	362.0	323.8
80°	242.5	285.7	302.4	276.5	245.7
82.5°	172.0	207.7	219.2	203.6	182.7
85°	78.7	103.4	116.5	110.1	103.9
87.5°	20.9	39.6	52.3	52.8	55.2
90°	3.7	11.0	22.3	24.2	24.2
92.5°	45.4	160.5	317.3	152.8	106.2
95°	104.3	372.0	1121.1	573.3	396.7
97.5°	166.5	425.8	1758.4	1469.0	1107.7
100°	214.2	447.3	1961.0	2051.8	1702.2
102.5°	260.4	477.4	2028.1	2488.3	2201.3
105°	340.8	530.2	2037.4	3048.1	2860.6
107.5°	416.8	585.8	1950.6	3335.8	3384.2
110°	467.4	627.7	1871.6	3425.1	3601.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	521.1	669.7	1795.7	3405.4	3695.6
115°	601.5	736.3	1696.6	3278.2	3707.9
117.5°	674.9	801.3	1619.9	3075.2	3553.7
120°	722.6	844.6	1581.1	2929.5	3421.1
122.5°	764.3	884.9	1552.8	2780.4	3270.6
125°	821.3	943.3	1523.4	2574.8	3030.0
127.5°	876.0	996.2	1504.8	2393.4	2799.8
130°	908.8	1029.0	1497.3	2289.5	2646.4
132.5°	941.6	1060.3	1489.9	2197.9	2525.7
135°	988.9	1103.6	1480.6	2077.2	2352.1
137.5°	1034.0	1144.0	1475.7	1974.7	2200.5
140°	1065.3	1170.9	1471.2	1911.7	2115.6
142.5°	1098.0	1196.4	1468.3	1852.8	2024.7
145°	1143.5	1232.7	1461.9	1775.9	1907.0
147.5°	1192.6	1270.2	1455.6	1711.2	1814.3
150°	1225.4	1292.8	1452.6	1670.6	1756.2
152.5°	1255.2	1313.9	1451.1	1637.5	1707.0
155°	1298.0	1345.4	1448.9	1593.5	1644.4
157.5°	1335.7	1372.5	1449.3	1562.5	1596.8
160°	1359.5	1390.5	1450.8	1544.5	1570.0
162.5°	1380.4	1405.5	1452.3	1529.4	1547.6
165°	1407.9	1424.3	1454.5	1512.4	1519.7
167.5°	1430.3	1439.7	1456.3	1499.2	1502.2
170°	1445.2	1448.8	1456.3	1491.7	1491.7
172.5°	1454.1	1454.8	1457.8	1484.3	1484.3
175°	1463.8	1462.0	1456.3	1476.8	1473.1
177.5°	1467.9	1465.0	1457.5	1469.3	1466.4
180°	1461.9	1461.9	1461.9	1461.9	1461.9

(END OF REPORT)