

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: P565056

Luminaire Tested: **SQ4-PW1-125U-100D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565056
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-100D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

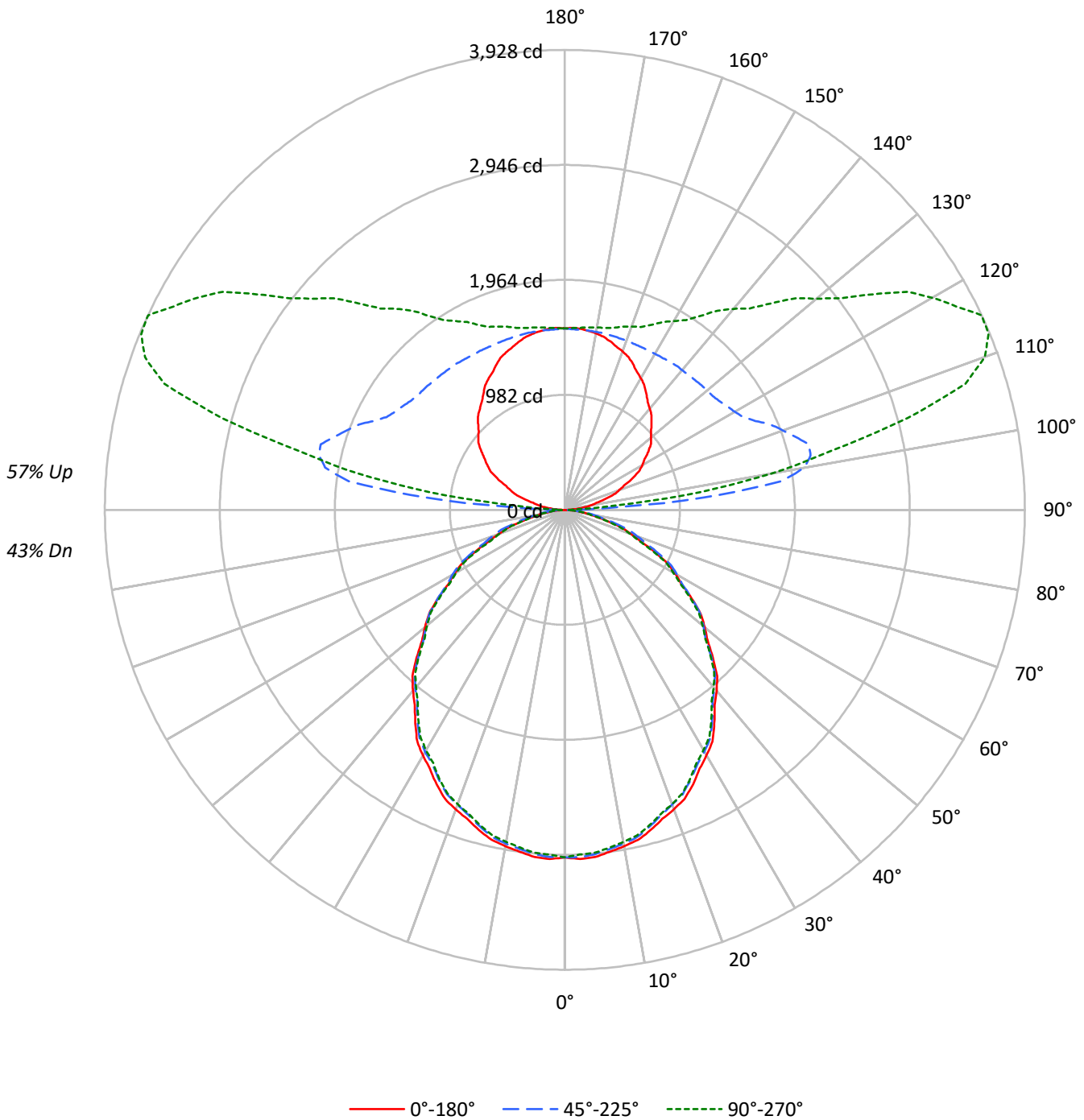
Lumens per Lamp: N/A
Luminaire Lumens: 17553.9 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36
2	88	80	74	69	80	74	69	64	61	57	54	50	47	45	39	37	36	31
3	80	71	64	58	73	65	59	54	54	49	46	44	41	38	34	32	30	26
4	73	63	55	49	67	58	51	45	48	43	39	39	35	32	31	28	26	22
5	67	56	48	42	61	51	44	39	43	38	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	14
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	17	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13692	13692	13692
5°	13781	13672	13611
10°	13671	13560	13487
15°	13526	13376	13326
20°	13364	13159	13133
25°	13177	12938	12898
30°	12899	12704	12620
35°	12532	12356	12282
40°	12142	11952	11905
45°	11669	11516	11464
50°	11186	11092	11016
55°	10663	10663	10495
60°	10012	10206	9843
65°	9162	9620	8934
70°	8076	8853	7866
75°	6898	7924	6712
80°	5350	6668	5419
85°	3462	5124	4568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.5	1.6
10°-20°	789.1	4.5
20°-30°	1170.5	6.7
30°-40°	1369.6	7.8
40°-50°	1363.5	7.8
50°-60°	1177.4	6.7
60°-70°	847.5	4.8
70°-80°	444.4	2.5
80°-90°	113.8	0.6
90°-100°	724.6	4.1
100°-110°	1951.8	11.1
110°-120°	2048.3	11.7
120°-130°	1662.1	9.5
130°-140°	1303.6	7.4
140°-150°	1000.8	5.7
150°-160°	719.6	4.1
160°-170°	439.6	2.5
170°-180°	148.3	0.8
0°-30°	2239.0	12.8
0°-40°	3608.6	20.6
0°-60°	6149.5	35.0
0°-90°	7555.2	43.0
90°-120°	4724.6	26.9
90°-150°	8691.2	49.5
90°-180°	9999.0	57.0
0°-180°	17553.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2968	2968	2968	2968	2968	
5°	2976	2943	2952	2944	2939	282
15°	2832	2796	2801	2795	2790	798
25°	2589	2545	2542	2526	2534	1190
35°	2225	2195	2194	2173	2181	1391
45°	1789	1773	1765	1760	1757	1380
55°	1326	1323	1326	1308	1305	1183
65°	839	865	881	847	818	832
75°	387	423	445	415	377	415
85°	65	86	97	91	86	86
90°	4	12	24	26	26	10
95°	110	394	1188	607	420	115
105°	361	562	2158	3229	3031	380
115°	637	780	1797	3473	3928	627
125°	870	999	1614	2728	3210	777
135°	1048	1169	1569	2201	2492	809
145°	1211	1306	1549	1882	2020	760
155°	1375	1425	1535	1688	1742	633
165°	1492	1509	1541	1602	1610	421
175°	1551	1549	1543	1564	1561	147
180°	1549	1549	1549	1549	1549	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2968.1	2968.1	2968.1	2968.1	2968.1
2.5°	2984.8	2960.3	2968.1	2961.5	2947.2
5°	2975.9	2942.7	2952.4	2944.4	2939.3
7.5°	2945.6	2914.9	2922.1	2913.6	2910.6
10°	2918.4	2887.7	2894.9	2884.3	2879.2
12.5°	2887.0	2854.3	2861.4	2850.9	2847.8
15°	2832.1	2796.3	2800.7	2795.4	2790.3
17.5°	2768.3	2732.0	2732.7	2724.3	2723.3
20°	2722.3	2683.9	2680.4	2670.1	2675.2
22.5°	2672.1	2631.7	2628.1	2613.6	2620.8
25°	2588.9	2545.4	2541.8	2526.3	2534.0
27.5°	2492.7	2449.7	2449.8	2428.0	2436.2
30°	2421.5	2380.6	2384.9	2359.0	2369.2
32.5°	2346.2	2309.4	2311.7	2285.8	2296.0
35°	2225.4	2194.7	2194.0	2173.3	2181.0
37.5°	2102.0	2074.9	2070.6	2058.6	2060.7
40°	2016.2	1993.2	1984.8	1977.0	1977.0
42.5°	1926.2	1905.3	1897.0	1891.2	1889.1
45°	1788.7	1773.4	1765.2	1759.9	1757.3
47.5°	1652.7	1638.4	1631.3	1627.6	1625.0
50°	1558.6	1548.3	1545.5	1537.6	1535.0
52.5°	1464.4	1458.3	1455.5	1445.5	1443.0
55°	1325.8	1323.3	1325.8	1307.5	1304.9
57.5°	1181.5	1185.6	1194.0	1169.3	1163.2
60°	1085.2	1095.5	1106.2	1077.2	1066.9
62.5°	986.9	1003.3	1018.3	985.0	970.7
65°	839.4	865.0	881.3	846.6	818.5
67.5°	697.2	728.9	748.4	711.1	679.4
70°	598.8	634.6	656.4	619.0	583.2
72.5°	513.1	553.0	570.6	535.3	499.5
75°	387.0	422.8	444.6	414.9	376.6
77.5°	274.6	308.3	326.4	300.5	268.8
80°	201.4	237.2	251.0	229.5	204.0
82.5°	142.8	172.4	182.0	169.1	151.7
85°	65.4	85.8	96.8	91.4	86.3
87.5°	17.5	33.4	44.5	44.9	47.0
90°	3.9	11.7	23.7	25.6	25.6
92.5°	48.1	170.1	336.2	161.9	112.5
95°	110.5	394.1	1187.8	607.4	420.3
97.5°	176.4	451.1	1862.9	1556.3	1173.6
100°	226.9	473.8	2077.6	2173.8	1803.4
102.5°	275.8	505.8	2148.6	2636.2	2332.1
105°	361.1	561.7	2158.5	3229.3	3030.6
107.5°	441.6	620.6	2066.6	3534.1	3585.4
110°	495.2	665.0	1982.9	3628.7	3815.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	552.1	709.5	1902.4	3607.8	3915.3
115°	637.3	780.1	1797.4	3473.0	3928.3
117.5°	715.0	848.9	1716.2	3258.0	3765.0
120°	765.5	894.8	1675.1	3103.6	3624.5
122.5°	809.7	937.4	1645.1	2945.7	3465.1
125°	870.1	999.4	1613.9	2727.8	3210.1
127.5°	928.1	1055.4	1594.2	2535.7	2966.3
130°	962.8	1090.2	1586.3	2425.6	2803.7
132.5°	997.6	1123.4	1578.4	2328.6	2675.8
135°	1047.7	1169.2	1568.6	2200.6	2491.9
137.5°	1095.4	1212.0	1563.4	2092.1	2331.3
140°	1128.6	1240.5	1558.7	2025.3	2241.4
142.5°	1163.3	1267.5	1555.5	1963.0	2145.1
145°	1211.4	1306.0	1548.8	1881.5	2020.4
147.5°	1263.5	1345.7	1542.1	1812.9	1922.1
150°	1298.3	1369.6	1539.0	1769.9	1860.6
152.5°	1329.8	1391.9	1537.4	1734.8	1808.5
155°	1375.2	1425.4	1535.0	1688.2	1742.2
157.5°	1415.1	1454.0	1535.4	1655.4	1691.7
160°	1440.3	1473.1	1537.0	1636.3	1663.3
162.5°	1462.4	1489.0	1538.6	1620.3	1639.6
165°	1491.6	1509.0	1540.9	1602.3	1610.0
167.5°	1515.3	1525.3	1542.9	1588.4	1591.5
170°	1531.1	1534.9	1542.9	1580.4	1580.4
172.5°	1540.5	1541.3	1544.5	1572.5	1572.5
175°	1550.8	1548.9	1542.9	1564.5	1560.7
177.5°	1555.2	1552.1	1544.1	1556.7	1553.6
180°	1548.8	1548.8	1548.8	1548.8	1548.8

(END OF REPORT)