

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: P564992

Luminaire Tested: **SQ4-PW1-100U-125D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564992
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PW1-100U-125D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

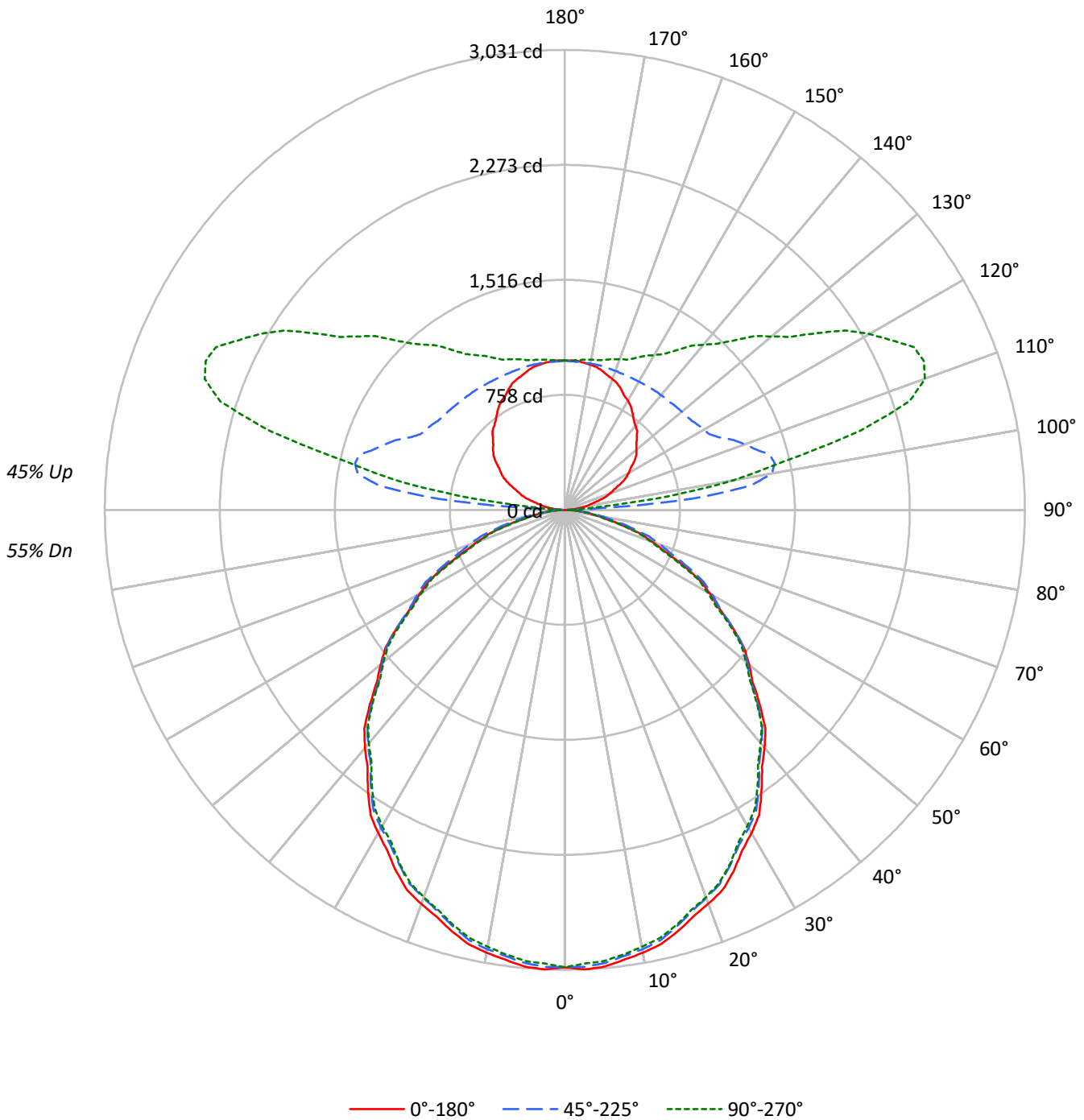
Lumens per Lamp: N/A
Luminaire Lumens: 14062.6 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 140.6
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55		
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	53	52	51	46		
2	90	83	77	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39		
3	82	73	65	60	76	68	61	56	59	54	49	50	46	43	42	39	37	33		
4	75	64	57	50	70	60	53	48	52	47	42	44	40	37	37	34	32	28		
5	69	57	49	43	64	54	46	41	47	41	36	40	36	32	34	30	28	25		
6	64	52	43	38	59	48	41	36	42	36	32	36	32	28	31	27	24	22		
7	59	47	39	33	55	44	36	31	38	32	28	33	28	25	28	24	22	19		
8	55	42	35	29	51	40	33	28	35	29	25	30	26	22	26	22	19	17		
9	51	39	31	26	47	36	30	25	32	26	22	28	23	20	24	20	18	15		
10	48	36	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13904	13904	13904
5°	13994	13883	13822
10°	13882	13770	13696
15°	13735	13583	13532
20°	13571	13362	13336
25°	13382	13138	13098
30°	13098	12901	12816
35°	12727	12547	12472
40°	12329	12138	12090
45°	11850	11694	11642
50°	11359	11263	11187
55°	10829	10829	10657
60°	10168	10364	9997
65°	9304	9768	9073
70°	8202	8990	7987
75°	7005	8046	6816
80°	5433	6772	5502
85°	3515	5203	4637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.8	2.0
10°-20°	801.3	5.7
20°-30°	1188.6	8.5
30°-40°	1390.8	9.9
40°-50°	1384.6	9.8
50°-60°	1195.6	8.5
60°-70°	860.6	6.1
70°-80°	451.3	3.2
80°-90°	113.9	0.8
90°-100°	460.7	3.3
100°-110°	1271.9	9.0
110°-120°	1311.7	9.3
120°-130°	1054.1	7.5
130°-140°	828.4	5.9
140°-150°	635.3	4.5
150°-160°	456.6	3.2
160°-170°	279.2	2.0
170°-180°	94.1	0.7
0°-30°	2273.7	16.2
0°-40°	3664.5	26.1
0°-60°	6244.7	44.4
0°-90°	7670.6	54.5
90°-120°	3044.3	21.6
90°-150°	5562.0	39.6
90°-180°	6392.0	45.5
0°-180°	14062.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3014	3014	3014	3014	3014	
5°	3022	2988	2998	2990	2985	286
15°	2876	2840	2844	2839	2834	811
25°	2629	2585	2581	2565	2573	1209
35°	2260	2229	2228	2207	2215	1413
45°	1816	1801	1792	1787	1784	1401
55°	1346	1344	1346	1328	1325	1201
65°	852	878	895	860	831	845
75°	393	429	451	421	382	421
85°	66	87	98	93	88	88
90°	3	6	13	14	16	7
95°	68	249	836	344	224	72
105°	227	350	1399	2136	2012	241
115°	406	491	1127	2231	2537	399
125°	557	634	1022	1729	2029	496
135°	670	743	993	1400	1579	519
145°	778	831	981	1192	1283	487
155°	877	906	973	1070	1103	404
165°	949	962	978	1015	1023	268
175°	984	985	979	993	990	93
180°	984	984	984	984	984	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3014.1	3014.1	3014.1	3014.1	3014.1
2.5°	3031.1	3006.1	3014.1	3007.4	2992.8
5°	3022.0	2988.3	2998.1	2990.0	2984.9
7.5°	2991.2	2960.1	2967.3	2958.8	2955.6
10°	2963.6	2932.4	2939.7	2929.0	2923.8
12.5°	2931.7	2898.5	2905.7	2895.0	2891.9
15°	2876.0	2839.6	2844.1	2838.7	2833.5
17.5°	2811.2	2774.3	2775.1	2766.5	2765.5
20°	2764.4	2725.5	2721.9	2711.4	2716.6
22.5°	2713.5	2672.4	2668.8	2654.1	2661.4
25°	2629.0	2584.9	2581.2	2565.4	2573.2
27.5°	2531.3	2487.7	2487.7	2465.6	2473.9
30°	2459.0	2417.5	2421.9	2395.6	2405.9
32.5°	2382.6	2345.2	2347.5	2321.2	2331.6
35°	2259.9	2228.7	2228.0	2206.9	2214.7
37.5°	2134.5	2107.0	2102.7	2090.5	2092.6
40°	2047.4	2024.1	2015.6	2007.6	2007.6
42.5°	1956.1	1934.8	1926.3	1920.5	1918.4
45°	1816.4	1800.8	1792.5	1787.1	1784.5
47.5°	1678.3	1663.8	1656.5	1652.8	1650.2
50°	1582.7	1572.3	1569.4	1561.4	1558.8
52.5°	1487.1	1480.9	1478.1	1467.9	1465.3
55°	1346.4	1343.8	1346.4	1327.7	1325.1
57.5°	1199.8	1203.9	1212.5	1187.4	1181.2
60°	1102.1	1112.4	1123.3	1093.9	1083.5
62.5°	1002.2	1018.8	1034.1	1000.3	985.7
65°	852.4	878.4	894.9	859.8	831.2
67.5°	708.0	740.2	760.0	722.1	689.9
70°	608.1	644.5	666.5	628.5	592.2
72.5°	521.0	561.5	579.4	543.6	507.2
75°	393.0	429.4	451.4	421.3	382.4
77.5°	278.8	313.1	331.4	305.2	273.0
80°	204.5	240.8	254.9	233.1	207.1
82.5°	145.0	175.1	184.8	171.7	154.0
85°	66.4	87.2	98.3	92.8	87.6
87.5°	17.6	32.8	42.9	43.3	45.6
90°	3.1	6.2	12.6	14.2	15.7
92.5°	28.3	117.6	210.3	76.7	59.8
95°	67.7	249.3	835.8	343.6	223.5
97.5°	112.1	279.2	1238.1	953.2	690.4
100°	144.8	297.2	1386.7	1396.5	1134.9
102.5°	176.3	317.6	1415.7	1725.5	1477.4
105°	226.7	349.8	1399.3	2136.3	2011.6
107.5°	280.2	389.8	1321.2	2334.4	2379.9
110°	318.0	416.5	1260.8	2377.0	2524.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	352.0	446.8	1204.1	2343.3	2561.3
115°	406.1	490.7	1127.0	2231.1	2537.3
117.5°	453.3	537.7	1076.3	2073.0	2421.5
120°	484.8	567.9	1056.2	1966.1	2317.0
122.5°	515.0	594.4	1039.8	1866.2	2198.6
125°	557.2	634.2	1021.5	1728.8	2028.9
127.5°	593.1	670.0	1010.8	1612.7	1871.5
130°	617.0	694.0	1005.8	1541.6	1777.1
132.5°	639.7	712.9	1000.8	1481.9	1695.2
135°	670.5	742.9	993.2	1400.2	1578.8
137.5°	705.2	771.0	989.4	1331.6	1484.0
140°	724.1	788.7	986.9	1285.9	1419.8
142.5°	745.5	805.2	984.4	1245.2	1363.1
145°	777.6	831.4	980.6	1192.0	1282.8
147.5°	808.4	855.5	977.2	1147.2	1217.7
150°	831.1	869.6	975.9	1120.4	1177.4
152.5°	848.7	884.7	974.6	1097.5	1144.6
155°	876.7	906.0	972.7	1069.5	1103.4
157.5°	902.5	925.0	973.1	1049.1	1072.2
160°	917.7	937.7	974.3	1037.7	1054.6
162.5°	930.3	947.8	975.6	1027.5	1040.7
165°	949.1	961.5	977.5	1015.4	1023.1
167.5°	963.6	971.0	979.0	1008.1	1010.5
170°	971.2	977.3	979.0	1004.2	1004.2
172.5°	977.5	981.2	979.0	999.2	997.9
175°	983.8	985.3	979.0	993.1	990.1
177.5°	986.3	985.1	978.7	987.5	985.0
180°	983.8	983.8	983.8	983.8	983.8

(END OF REPORT)