

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: P562944

Luminaire Tested: **SQ4-PC3-100U-100D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562944
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-100U-100D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

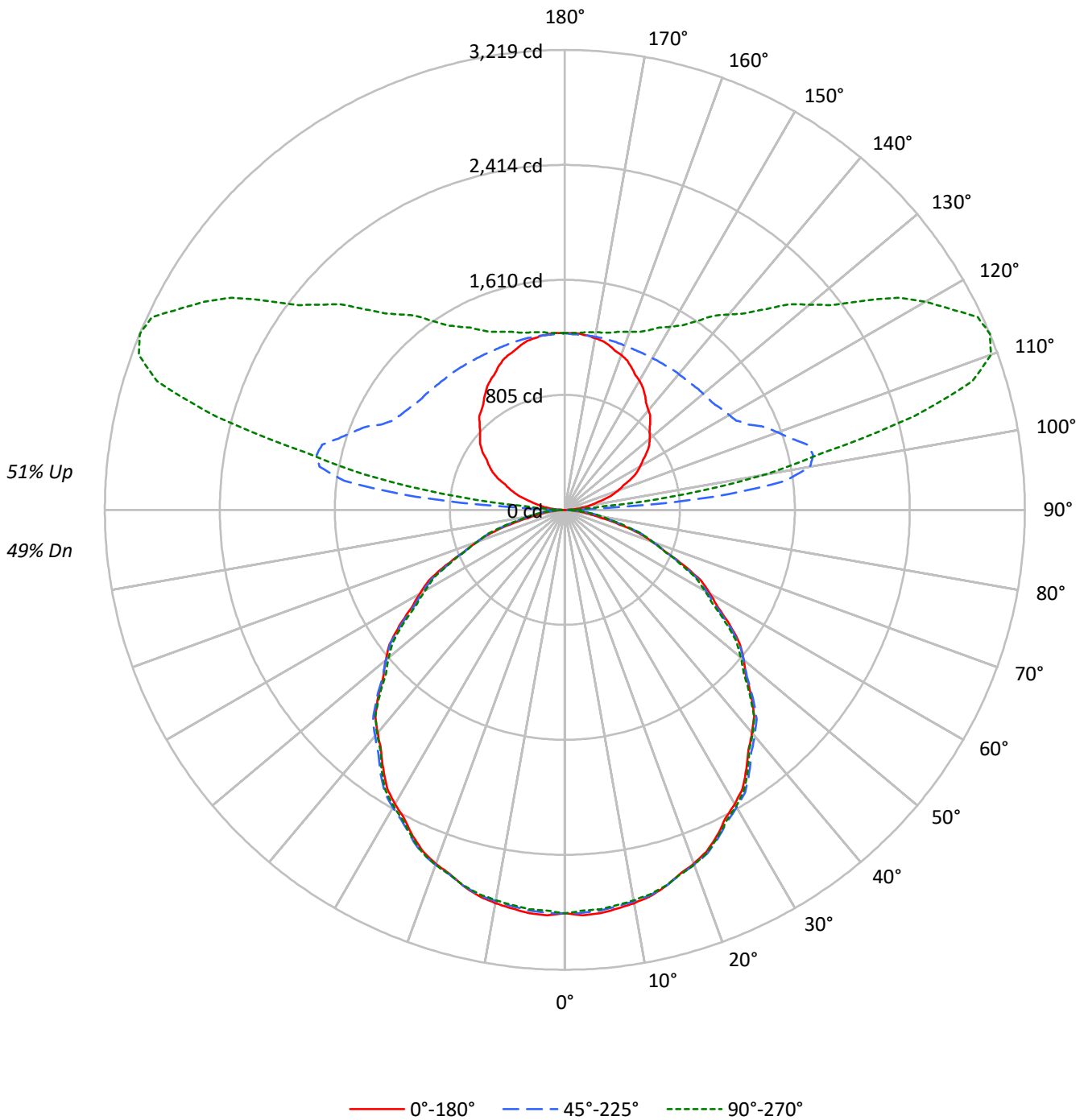
Lumens per Lamp: N/A
Luminaire Lumens: 15743.1 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 121.2
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	81	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	33	29
4	74	63	55	49	68	59	52	46	50	45	40	42	38	34	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	42	37	57	47	40	34	40	34	30	34	29	26	28	24	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20	17
8	54	41	34	28	49	38	32	27	33	28	24	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13029	13029	13029
5°	13127	13042	12994
10°	13095	13034	12997
15°	13026	13026	13014
20°	12941	12979	12979
25°	12818	12911	12872
30°	12662	12815	12760
35°	12473	12665	12577
40°	12267	12441	12315
45°	12044	12130	11942
50°	11730	11730	11542
55°	11357	11210	11042
60°	10808	10592	10423
65°	9991	9791	9705
70°	8747	8818	8782
75°	7039	7784	7830
80°	5002	6599	6668
85°	3043	5536	5536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.3	1.7
10°-20°	767.0	4.9
20°-30°	1161.6	7.4
30°-40°	1392.6	8.8
40°-50°	1419.9	9.0
50°-60°	1239.5	7.9
60°-70°	887.4	5.6
70°-80°	457.1	2.9
80°-90°	118.1	0.8
90°-100°	579.0	3.7
100°-110°	1598.3	10.2
110°-120°	1648.4	10.5
120°-130°	1324.6	8.4
130°-140°	1041.0	6.6
140°-150°	798.4	5.1
150°-160°	573.8	3.6
160°-170°	350.9	2.2
170°-180°	118.3	0.8
0°-30°	2195.9	13.9
0°-40°	3588.5	22.8
0°-60°	6247.9	39.7
0°-90°	7710.5	49.0
90°-120°	3825.6	24.3
90°-150°	6989.6	44.4
90°-180°	8033.0	51.0
0°-180°	15743.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2824	2824	2824	2824	2824	
5°	2835	2807	2816	2808	2806	269
15°	2728	2704	2728	2727	2725	769
25°	2518	2500	2537	2529	2529	1159
35°	2215	2210	2249	2233	2233	1385
45°	1846	1841	1859	1836	1830	1421
55°	1412	1394	1394	1373	1373	1259
65°	915	895	897	889	889	905
75°	395	413	437	439	439	427
85°	58	88	105	107	105	78
90°	4	8	16	18	20	8
95°	85	313	1050	432	281	91
105°	285	440	1758	2685	2528	303
115°	510	617	1416	2804	3189	501
125°	700	797	1284	2172	2550	623
135°	843	934	1248	1760	1984	652
145°	977	1045	1232	1498	1612	612
155°	1102	1138	1222	1344	1387	508
165°	1193	1208	1228	1276	1286	336
175°	1236	1238	1230	1248	1244	117
180°	1236	1236	1236	1236	1236	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2824.3	2824.3	2824.3	2824.3	2824.3
2.5°	2841.0	2816.4	2824.3	2817.7	2807.5
5°	2834.7	2806.6	2816.4	2808.5	2806.0
7.5°	2814.3	2786.2	2799.2	2793.9	2791.3
10°	2795.5	2767.4	2782.4	2777.1	2774.6
12.5°	2770.4	2744.3	2761.5	2756.3	2755.7
15°	2727.5	2704.5	2727.5	2727.4	2724.9
17.5°	2673.6	2652.7	2677.3	2678.8	2677.3
20°	2636.0	2613.0	2643.8	2641.3	2643.8
22.5°	2589.9	2571.0	2604.1	2597.3	2599.9
25°	2518.3	2500.4	2536.6	2528.8	2528.8
27.5°	2433.6	2420.8	2460.2	2451.9	2451.9
30°	2377.1	2364.3	2405.8	2395.4	2395.4
32.5°	2314.3	2305.6	2345.2	2332.6	2332.6
35°	2214.9	2209.8	2248.9	2233.3	2233.3
37.5°	2112.4	2107.8	2143.3	2124.3	2118.2
40°	2037.1	2034.6	2065.9	2045.0	2045.0
42.5°	1961.8	1959.3	1986.4	1961.3	1961.3
45°	1846.2	1841.1	1859.3	1835.7	1830.5
47.5°	1720.2	1715.1	1726.5	1700.8	1698.2
50°	1634.4	1629.3	1634.4	1610.8	1608.3
52.5°	1546.5	1537.3	1538.2	1514.6	1514.1
55°	1412.1	1394.2	1393.8	1372.9	1372.9
57.5°	1269.9	1246.3	1248.4	1230.6	1228.0
60°	1171.5	1146.0	1148.0	1132.3	1129.7
62.5°	1075.3	1045.6	1051.8	1034.0	1033.5
65°	915.3	894.8	897.0	889.1	889.1
67.5°	761.5	742.6	756.3	750.0	749.5
70°	648.5	635.7	653.8	653.7	651.1
72.5°	543.9	543.4	565.9	565.9	567.5
75°	394.9	412.8	436.7	439.3	439.3
77.5°	263.6	295.3	321.7	322.7	322.2
80°	188.3	224.1	248.4	253.6	251.0
82.5°	127.6	165.5	185.7	190.8	188.3
85°	57.5	88.2	104.6	107.2	104.6
87.5°	17.5	36.7	45.0	45.3	41.6
90°	4.0	7.8	15.8	17.8	19.8
92.5°	35.6	147.8	264.3	96.4	75.2
95°	85.1	313.3	1050.3	431.7	280.9
97.5°	140.8	350.9	1555.9	1197.9	867.6
100°	182.0	373.5	1742.6	1755.0	1426.2
102.5°	221.5	399.1	1779.0	2168.4	1856.6
105°	284.8	439.6	1758.5	2684.6	2527.9
107.5°	352.1	489.8	1660.4	2933.5	2990.8
110°	399.6	523.3	1584.4	2987.1	3172.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	442.3	561.4	1513.2	2944.8	3218.7
115°	510.3	616.7	1416.3	2803.7	3188.6
117.5°	569.7	675.7	1352.6	2605.1	3043.0
120°	609.2	713.7	1327.3	2470.7	2911.7
122.5°	647.2	747.0	1306.7	2345.2	2762.9
125°	700.2	796.9	1283.7	2172.5	2549.7
127.5°	745.3	842.0	1270.3	2026.6	2351.9
130°	775.4	872.1	1264.0	1937.3	2233.2
132.5°	803.9	895.9	1257.6	1862.3	2130.3
135°	842.6	933.5	1248.1	1759.6	1984.0
137.5°	886.2	968.9	1243.4	1673.4	1864.9
140°	909.9	991.1	1240.2	1615.9	1784.2
142.5°	936.8	1011.8	1237.1	1564.8	1713.0
145°	977.1	1044.8	1232.3	1498.0	1612.1
147.5°	1015.9	1075.1	1228.0	1441.6	1530.2
150°	1044.4	1092.8	1226.4	1408.0	1479.6
152.5°	1066.6	1111.8	1224.8	1379.2	1438.4
155°	1101.8	1138.5	1222.4	1344.1	1386.6
157.5°	1134.2	1162.4	1222.8	1318.4	1347.4
160°	1153.2	1178.3	1224.4	1304.0	1325.3
162.5°	1169.0	1191.1	1226.0	1291.2	1307.9
165°	1192.8	1208.2	1228.4	1276.1	1285.7
167.5°	1211.0	1220.2	1230.3	1266.8	1269.9
170°	1220.4	1228.2	1230.3	1262.0	1262.0
172.5°	1228.4	1233.0	1230.3	1255.6	1254.1
175°	1236.3	1238.2	1230.3	1248.1	1244.2
177.5°	1239.4	1237.9	1229.9	1240.9	1237.9
180°	1236.3	1236.3	1236.3	1236.3	1236.3

(END OF REPORT)