

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: P562560

Luminaire Tested: **SQ4-PC3-025U-100D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562560
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-100D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

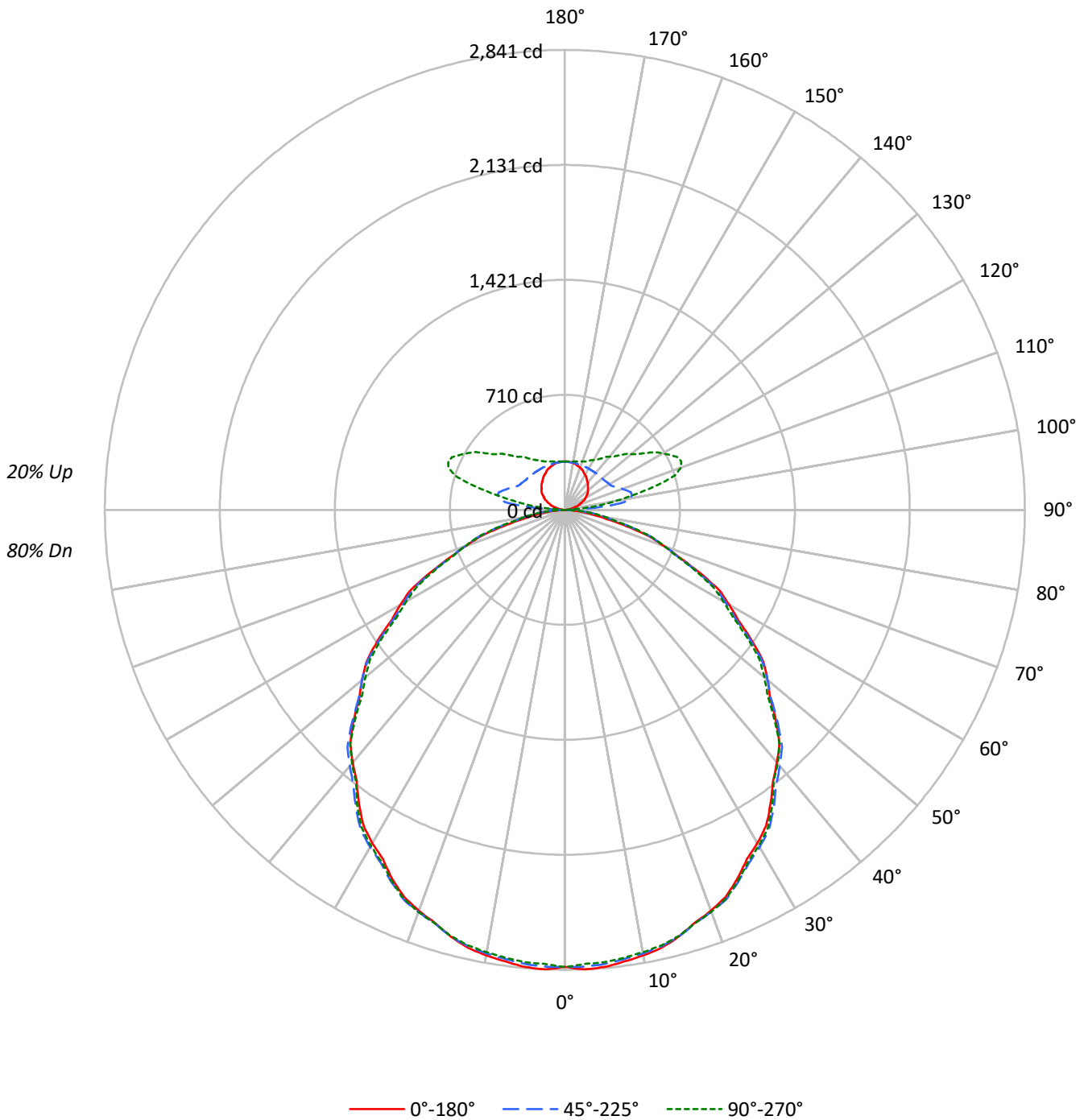
Lumens per Lamp: N/A
Luminaire Lumens: 9641.4 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 82.2
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	50	30	10	0	
RCR																						
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	84	84	84	80				
1	105	100	96	92	100	96	92	89	88	85	83	81	79	77	74	72	71	68				
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60	57				
3	87	77	69	63	83	74	67	61	68	62	58	63	58	54	58	54	51	48				
4	80	68	60	53	76	66	58	52	61	54	49	56	51	46	52	47	44	41				
5	73	61	52	46	70	59	51	45	54	48	43	50	45	40	46	42	38	36				
6	68	55	46	40	64	53	45	39	49	42	37	45	40	35	42	37	34	31				
7	63	50	41	35	60	48	40	34	45	38	33	41	36	31	38	34	30	28				
8	58	45	37	31	56	44	36	31	41	34	29	38	32	28	35	30	27	25				
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	33	28	24	22				
10	51	38	30	25	49	37	30	25	35	28	24	32	27	23	30	25	22	20				

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	2.8
10°-20°	767.0	8.0
20°-30°	1161.6	12.0
30°-40°	1392.6	14.4
40°-50°	1419.9	14.7
50°-60°	1239.5	12.9
60°-70°	887.4	9.2
70°-80°	457.1	4.7
80°-90°	117.2	1.2
90°-100°	145.3	1.5
100°-110°	381.9	4.0
110°-120°	396.0	4.1
120°-130°	317.6	3.3
130°-140°	249.2	2.6
140°-150°	191.3	2.0
150°-160°	137.8	1.4
160°-170°	84.3	0.9
170°-180°	28.5	0.3
0°-30°	2195.9	22.8
0°-40°	3588.5	37.2
0°-60°	6247.9	64.8
0°-90°	7709.5	80.0
90°-120°	923.2	9.6
90°-150°	1681.3	17.4
90°-180°	1932.0	20.0
0°-180°	9641.4	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°	2	6	15	8	8	4
95°	19	75	250	129	88	21
105°	69	104	422	641	598	73
115°	122	148	338	675	770	121
125°	170	191	308	520	613	151
135°	202	223	298	420	476	157
145°	235	250	294	358	386	147
155°	266	273	294	323	332	122
165°	287	290	294	306	310	81
175°	298	298	296	300	300	28
180°	298	298	298	298	298	

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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°	17.1	36.3	44.9	43.3	39.2
90°	1.9	5.6	15.3	7.6	7.6
92.5°	8.0	38.7	85.6	37.9	24.5
95°	19.1	75.1	250.3	129.0	87.9
97.5°	33.2	82.6	374.5	297.8	219.3
100°	43.9	88.8	412.7	418.2	324.8
102.5°	53.1	95.0	423.4	520.9	441.0
105°	68.8	104.3	422.2	641.0	598.0
107.5°	84.8	117.7	398.2	703.3	713.8
110°	95.5	125.4	378.3	719.4	764.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	106.2	134.6	360.0	709.2	778.0
115°	122.3	148.4	338.2	674.7	770.0
117.5°	137.9	161.9	323.3	626.8	732.5
120°	147.1	169.5	317.2	594.6	697.4
122.5°	156.3	178.7	312.6	562.5	663.7
125°	170.0	190.6	307.6	519.9	613.3
127.5°	181.1	202.0	303.4	485.5	564.4
130°	187.2	209.7	301.9	464.0	536.9
132.5°	193.4	215.8	300.3	445.5	510.9
135°	202.5	223.1	298.0	419.7	475.7
137.5°	212.1	232.2	297.7	400.4	446.3
140°	219.7	238.4	296.1	385.0	428.0
142.5°	225.8	243.0	296.1	374.2	411.2
145°	235.0	249.9	294.2	357.9	385.9
147.5°	244.2	258.7	294.2	344.4	367.6
150°	250.3	263.4	294.2	336.7	355.4
152.5°	256.4	266.5	294.2	330.5	344.7
155°	265.6	273.0	294.2	323.1	332.4
157.5°	272.4	279.5	294.2	316.5	323.3
160°	277.0	282.6	294.2	313.4	317.2
162.5°	281.6	285.7	294.2	310.4	314.1
165°	286.6	290.3	294.2	305.8	309.5
167.5°	291.2	293.0	296.1	303.8	305.3
170°	294.2	296.1	296.1	303.8	303.8
172.5°	295.8	296.1	296.1	302.2	300.7
175°	298.0	298.0	296.1	300.0	300.0
177.5°	298.0	298.0	296.5	299.5	298.0
180°	298.0	298.0	298.0	298.0	298.0

(END OF REPORT)