

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: P564261

Luminaire Tested: **SQ4-PR1-100U-075D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564261
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-100U-075D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

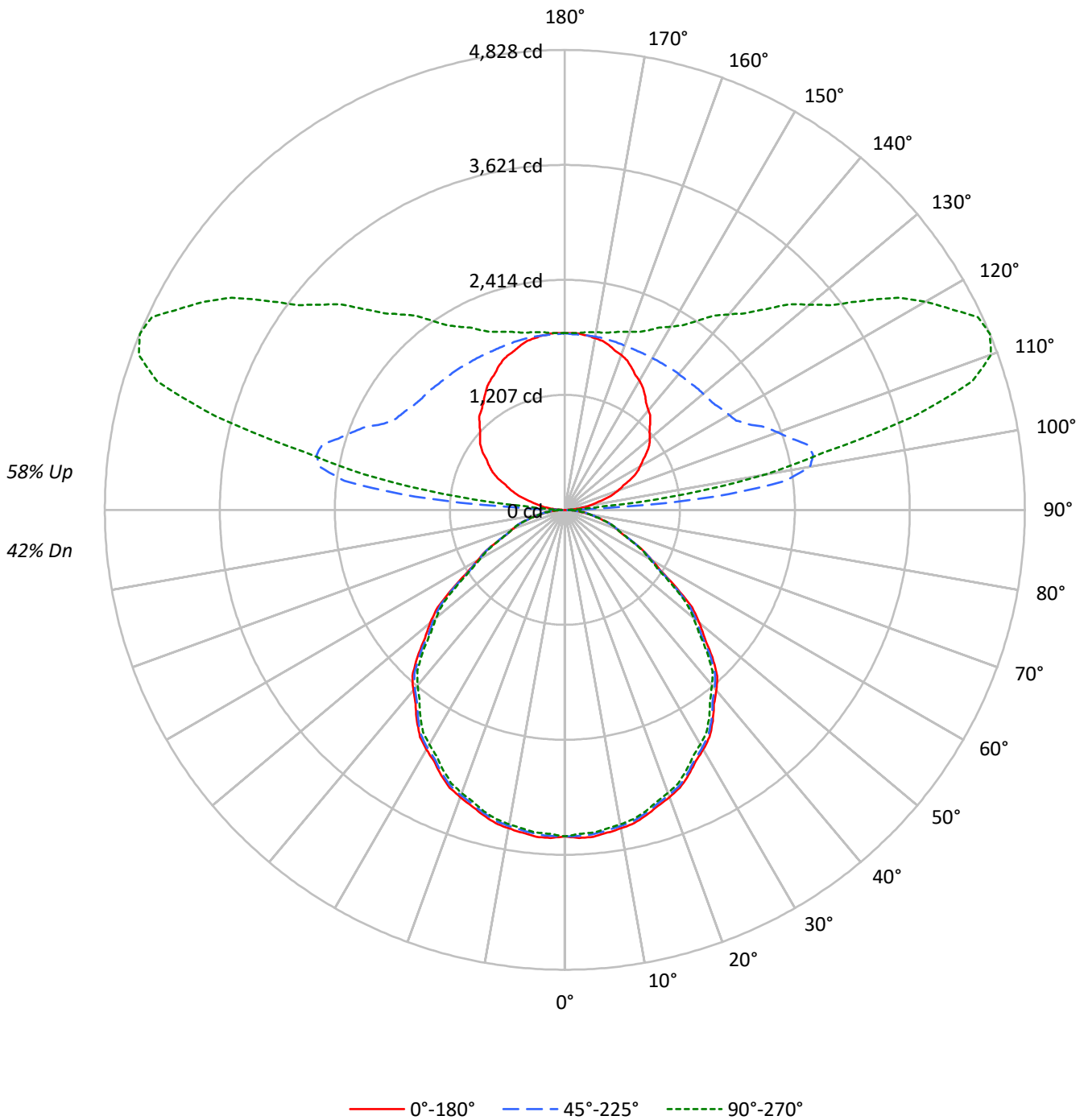
Lumens per Lamp: N/A
Luminaire Lumens: 20621.1 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 153.4
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	63	63	63	48	48	48	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	81	75	70	80	74	69	64	61	57	54	49	47	44	38	37	35	30
3	80	71	64	58	73	65	59	54	54	49	46	44	40	38	34	32	30	26
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	31	28	26	22
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	19
6	62	50	42	37	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	34	28	48	38	31	27	32	27	23	26	22	20	21	18	16	14
9	49	38	30	25	45	35	28	24	29	24	21	24	20	18	19	17	15	12
10	46	34	27	23	42	32	25	21	27	22	19	22	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10541	10541	10541
5°	10636	10554	10499
10°	10602	10528	10473
15°	10556	10490	10433
20°	10502	10435	10357
25°	10428	10358	10238
30°	10316	10243	10096
35°	10163	10075	9931
40°	9932	9825	9648
45°	9527	9360	9168
50°	8814	8602	8433
55°	7693	7519	7361
60°	6482	6428	6301
65°	5607	5629	5586
70°	5150	5177	5177
75°	4947	4947	4981
80°	4653	4706	4653
85°	3751	4167	4167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.1	1.6
10°-20°	927.3	4.5
20°-30°	1398.7	6.8
30°-40°	1666.6	8.1
40°-50°	1643.1	8.0
50°-60°	1255.7	6.1
60°-70°	777.1	3.8
70°-80°	441.4	2.1
80°-90°	138.1	0.7
90°-100°	868.4	4.2
100°-110°	2397.4	11.6
110°-120°	2472.6	12.0
120°-130°	1986.9	9.6
130°-140°	1561.5	7.6
140°-150°	1197.6	5.8
150°-160°	860.7	4.2
160°-170°	526.4	2.6
170°-180°	177.5	0.9
0°-30°	2650.2	12.9
0°-40°	4316.8	20.9
0°-60°	7215.6	35.0
0°-90°	8572.2	41.6
90°-120°	5738.4	27.8
90°-150°	10484.4	50.8
90°-180°	12049.0	58.4
0°-180°	20621.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3428	3428	3428	3428	3428	
5°	3445	3408	3419	3407	3401	327
15°	3315	3281	3295	3283	3277	936
25°	3073	3036	3053	3020	3017	1414
35°	2707	2675	2684	2648	2645	1690
45°	2190	2162	2152	2114	2108	1678
55°	1435	1412	1402	1378	1373	1286
65°	770	765	774	768	768	781
75°	416	416	416	419	419	440
85°	106	112	118	118	118	124
90°	6	12	24	27	30	13
95°	128	470	1576	648	421	137
105°	427	659	2638	4027	3792	455
115°	766	925	2124	4206	4783	752
125°	1050	1195	1926	3259	3824	935
135°	1264	1400	1872	2639	2976	978
145°	1466	1567	1848	2247	2418	918
155°	1653	1708	1834	2016	2080	762
165°	1789	1812	1842	1914	1929	504
175°	1854	1857	1846	1872	1866	176
180°	1854	1854	1854	1854	1854	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3427.5	3427.5	3427.5	3427.5	3427.5
2.5°	3448.7	3418.7	3427.5	3420.0	3403.9
5°	3445.2	3407.7	3418.6	3406.7	3400.9
7.5°	3418.6	3381.7	3392.6	3380.8	3377.3
10°	3395.0	3360.4	3371.4	3359.4	3353.7
12.5°	3369.0	3332.1	3345.4	3331.1	3325.3
15°	3315.3	3280.7	3294.6	3282.7	3276.9
17.5°	3256.3	3219.3	3233.2	3219.5	3212.0
20°	3209.0	3174.4	3188.4	3167.6	3164.7
22.5°	3157.1	3122.4	3136.4	3108.6	3108.1
25°	3073.2	3035.7	3052.6	3020.0	3017.1
27.5°	2973.4	2938.8	2952.8	2919.6	2916.2
30°	2904.9	2870.3	2884.3	2848.7	2842.9
32.5°	2827.0	2794.7	2806.3	2770.8	2767.4
35°	2707.1	2675.4	2683.5	2648.0	2645.2
37.5°	2570.8	2541.9	2546.6	2507.5	2504.6
40°	2473.9	2445.1	2447.4	2406.0	2403.1
42.5°	2367.6	2338.8	2336.4	2295.0	2292.1
45°	2190.5	2161.7	2152.1	2113.6	2107.9
47.5°	1988.6	1959.7	1941.9	1910.6	1906.5
50°	1842.2	1813.3	1797.9	1771.1	1762.5
52.5°	1683.9	1655.1	1642.0	1617.6	1608.9
55°	1434.8	1411.7	1402.3	1378.5	1372.8
57.5°	1198.0	1182.4	1179.7	1156.6	1154.3
60°	1053.9	1045.3	1045.1	1024.4	1024.4
62.5°	931.1	924.8	929.3	915.7	913.4
65°	770.5	764.7	773.5	767.6	767.6
67.5°	643.6	643.6	648.9	646.5	646.5
70°	572.7	572.7	575.7	575.7	575.7
72.5°	509.0	506.6	514.3	514.2	511.9
75°	416.3	416.3	416.3	419.2	419.2
77.5°	324.1	324.7	327.1	326.5	324.1
80°	262.7	265.6	265.7	262.7	262.7
82.5°	201.3	204.2	204.3	203.6	201.3
85°	106.3	112.1	118.1	118.1	118.1
87.5°	31.9	42.3	52.0	52.5	50.8
90°	5.9	11.7	23.7	26.8	29.7
92.5°	53.4	221.7	396.4	144.7	112.7
95°	127.6	469.9	1575.5	647.6	421.3
97.5°	211.3	526.3	2333.9	1796.9	1301.3
100°	273.0	560.2	2614.0	2632.4	2139.2
102.5°	332.3	598.6	2668.6	3252.5	2784.9
105°	427.3	659.3	2637.7	4026.9	3791.9
107.5°	528.1	734.7	2490.5	4400.3	4486.2
110°	599.3	785.0	2376.6	4480.6	4759.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	663.4	842.1	2269.8	4417.2	4828.0
115°	765.5	925.1	2124.4	4205.6	4782.9
117.5°	854.5	1013.5	2028.9	3907.7	4564.5
120°	913.9	1070.5	1990.9	3706.0	4367.5
122.5°	970.8	1120.5	1960.0	3517.7	4144.4
125°	1050.3	1195.4	1925.6	3258.8	3824.5
127.5°	1118.0	1263.0	1905.4	3039.9	3527.8
130°	1163.1	1308.1	1895.9	2905.9	3349.8
132.5°	1205.8	1343.9	1886.4	2793.4	3195.5
135°	1264.0	1400.3	1872.2	2639.4	2975.9
137.5°	1329.2	1453.4	1865.1	2510.1	2797.3
140°	1364.8	1486.7	1860.3	2423.9	2676.3
142.5°	1405.2	1517.8	1855.6	2347.2	2569.5
145°	1465.7	1567.3	1848.5	2247.0	2418.1
147.5°	1523.9	1612.6	1841.9	2162.4	2295.3
150°	1566.6	1639.1	1839.6	2112.0	2219.4
152.5°	1599.8	1667.7	1837.2	2068.9	2157.6
155°	1652.6	1707.8	1833.6	2016.1	2079.9
157.5°	1701.3	1743.7	1834.2	1977.6	2021.2
160°	1729.8	1767.5	1836.6	1956.0	1987.9
162.5°	1753.5	1786.6	1839.0	1936.9	1961.8
165°	1789.1	1812.3	1842.5	1914.1	1928.6
167.5°	1816.4	1830.4	1845.5	1900.2	1904.8
170°	1830.7	1842.3	1845.5	1893.0	1893.0
172.5°	1842.5	1849.5	1845.5	1883.4	1881.1
175°	1854.4	1857.3	1845.5	1872.1	1866.3
177.5°	1859.2	1856.8	1844.9	1861.4	1856.8
180°	1854.4	1854.4	1854.4	1854.4	1854.4

(END OF REPORT)