

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: P564485

Luminaire Tested: **SQ4-PR1-150U-100D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564485
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PR1-150U-100D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

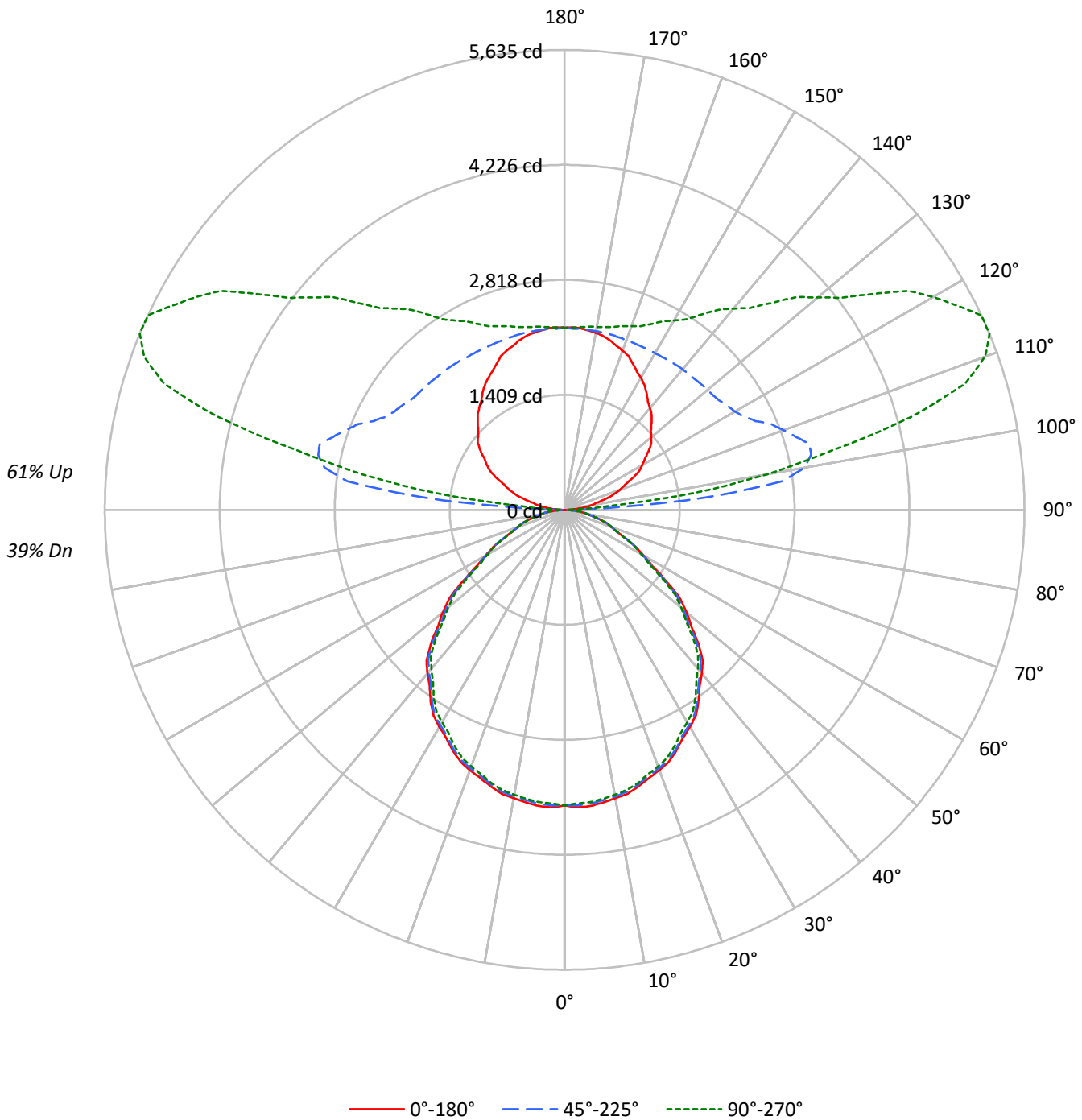
Lumens per Lamp: N/A
Luminaire Lumens: 23444.9 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 223.7
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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	88	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	64	60	56	53	47	45	43	36	35	33	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	36	32	30	28	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	34	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11145	11145	11145
5°	11246	11159	11101
10°	11210	11132	11073
15°	11160	11091	11032
20°	11105	11033	10951
25°	11026	10952	10825
30°	10907	10830	10674
35°	10746	10653	10500
40°	10501	10388	10200
45°	10073	9897	9693
50°	9319	9095	8916
55°	8134	7950	7783
60°	6854	6797	6662
65°	5929	5951	5906
70°	5445	5473	5473
75°	5229	5229	5266
80°	4920	4975	4920
85°	3966	4407	4407



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.7	1.5
10°-20°	980.5	4.2
20°-30°	1478.9	6.3
30°-40°	1762.1	7.5
40°-50°	1737.3	7.4
50°-60°	1327.7	5.7
60°-70°	821.7	3.5
70°-80°	466.7	2.0
80°-90°	146.6	0.6
90°-100°	1036.6	4.4
100°-110°	2802.7	12.0
110°-120°	2946.7	12.6
120°-130°	2393.5	10.2
130°-140°	1877.5	8.0
140°-150°	1441.0	6.1
150°-160°	1036.3	4.4
160°-170°	633.1	2.7
170°-180°	213.4	0.9
0°-30°	2802.1	12.0
0°-40°	4564.2	19.5
0°-60°	7629.2	32.5
0°-90°	9064.2	38.7
90°-120°	6786.0	28.9
90°-150°	12497.9	53.3
90°-180°	14381.0	61.3
0°-180°	23444.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3624	3624	3624	3624	3624	
5°	3643	3603	3615	3602	3596	346
15°	3505	3469	3484	3471	3465	989
25°	3249	3210	3228	3193	3190	1495
35°	2862	2829	2837	2800	2797	1786
45°	2316	2286	2276	2235	2229	1774
55°	1517	1493	1483	1458	1452	1359
65°	815	809	818	812	812	825
75°	440	440	440	443	443	465
85°	112	118	125	125	125	131
90°	5	14	31	34	31	15
95°	161	565	1724	892	531	168
105°	521	805	3109	4586	4398	549
115°	917	1121	2579	4992	5635	906
125°	1256	1439	2324	3922	4607	1119
135°	1505	1684	2262	3167	3585	1163
145°	1750	1882	2230	2711	2917	1095
155°	1976	2054	2211	2432	2511	911
165°	2151	2172	2221	2308	2319	606
175°	2233	2230	2223	2252	2247	212
180°	2230	2230	2230	2230	2230	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3624.0	3624.0	3624.0	3624.0	3624.0
2.5°	3646.4	3614.7	3624.0	3616.1	3599.0
5°	3642.7	3603.0	3614.6	3602.0	3595.9
7.5°	3614.6	3575.5	3587.1	3574.5	3570.9
10°	3589.6	3553.0	3564.6	3552.0	3545.9
12.5°	3562.1	3523.1	3537.2	3522.1	3515.9
15°	3505.3	3468.7	3483.5	3470.9	3464.8
17.5°	3442.9	3403.8	3418.6	3404.0	3396.1
20°	3393.0	3356.3	3371.1	3349.2	3346.1
22.5°	3338.0	3301.4	3316.2	3286.8	3286.2
25°	3249.4	3209.7	3227.5	3193.1	3190.1
27.5°	3143.9	3107.3	3122.0	3087.0	3083.3
30°	3071.5	3034.8	3049.6	3012.0	3005.9
32.5°	2989.1	2954.9	2967.2	2929.7	2926.0
35°	2862.3	2828.8	2837.4	2799.8	2796.8
37.5°	2718.1	2687.6	2692.5	2651.3	2648.2
40°	2615.7	2585.2	2587.6	2543.9	2540.8
42.5°	2503.4	2472.8	2470.3	2426.5	2423.5
45°	2316.1	2285.6	2275.5	2234.8	2228.7
47.5°	2102.6	2072.1	2053.3	2020.1	2015.8
50°	1947.8	1917.2	1900.9	1872.6	1863.5
52.5°	1780.4	1749.9	1736.1	1710.3	1701.2
55°	1517.0	1492.6	1482.7	1457.6	1451.5
57.5°	1266.7	1250.2	1247.3	1222.9	1220.5
60°	1114.3	1105.2	1105.0	1083.1	1083.1
62.5°	984.5	977.8	982.6	968.2	965.8
65°	814.7	808.6	817.8	811.6	811.6
67.5°	680.5	680.5	686.1	683.6	683.6
70°	605.6	605.6	608.7	608.7	608.7
72.5°	538.1	535.7	543.7	543.7	541.3
75°	440.1	440.1	440.1	443.2	443.2
77.5°	342.7	343.3	345.9	345.2	342.7
80°	277.8	280.9	280.9	277.8	277.8
82.5°	212.9	215.9	216.0	215.3	212.9
85°	112.4	118.5	124.9	124.9	124.9
87.5°	33.4	45.1	56.2	56.6	53.7
90°	4.8	14.2	31.2	33.6	31.2
92.5°	68.2	248.5	490.3	212.8	154.1
95°	160.9	564.7	1723.9	892.1	530.6
97.5°	258.3	647.6	2687.1	2223.8	1633.1
100°	331.3	681.1	2986.8	3114.9	2518.6
102.5°	398.6	727.7	3092.4	3790.6	3344.5
105°	521.0	805.1	3109.2	4586.4	4398.5
107.5°	634.3	893.5	2973.3	5082.8	5145.2
110°	722.7	957.4	2852.3	5216.1	5481.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	801.4	1021.2	2740.9	5189.5	5635.0
115°	917.2	1121.4	2578.6	4991.8	5635.0
117.5°	1030.5	1222.1	2471.5	4689.8	5419.0
120°	1099.6	1287.4	2408.2	4473.1	5217.3
122.5°	1164.9	1349.0	2369.7	4240.8	4990.6
125°	1255.7	1438.8	2324.1	3921.9	4607.4
127.5°	1339.3	1519.1	2297.2	3661.7	4264.6
130°	1385.4	1570.8	2285.7	3501.0	4045.6
132.5°	1433.4	1617.0	2274.2	3355.9	3857.4
135°	1505.4	1683.8	2261.7	3166.8	3584.6
137.5°	1577.9	1746.5	2251.1	3013.2	3353.7
140°	1627.8	1785.1	2247.3	2914.4	3217.3
142.5°	1675.9	1823.8	2239.6	2825.2	3090.5
145°	1750.3	1881.8	2230.5	2710.6	2917.2
147.5°	1818.0	1934.4	2219.9	2606.7	2765.4
150°	1867.9	1971.2	2216.1	2550.3	2677.1
152.5°	1914.0	2004.2	2214.2	2497.9	2602.2
155°	1976.0	2053.5	2211.3	2431.6	2511.4
157.5°	2040.3	2094.3	2211.8	2385.3	2437.9
160°	2076.8	2121.4	2213.7	2356.2	2393.8
162.5°	2105.6	2142.7	2215.6	2332.9	2361.1
165°	2151.3	2172.4	2220.9	2307.6	2319.3
167.5°	2182.5	2197.0	2221.4	2285.8	2291.5
170°	2201.7	2208.7	2223.3	2276.1	2276.1
172.5°	2217.0	2218.4	2223.3	2264.5	2262.7
175°	2232.9	2230.5	2223.3	2252.0	2247.3
177.5°	2238.2	2232.5	2222.8	2241.9	2236.2
180°	2230.5	2230.5	2230.5	2230.5	2230.5

(END OF REPORT)