

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: P563757

Luminaire Tested: **SQ4-PP3-150U-050D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563757
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-150U-050D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23925.8 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

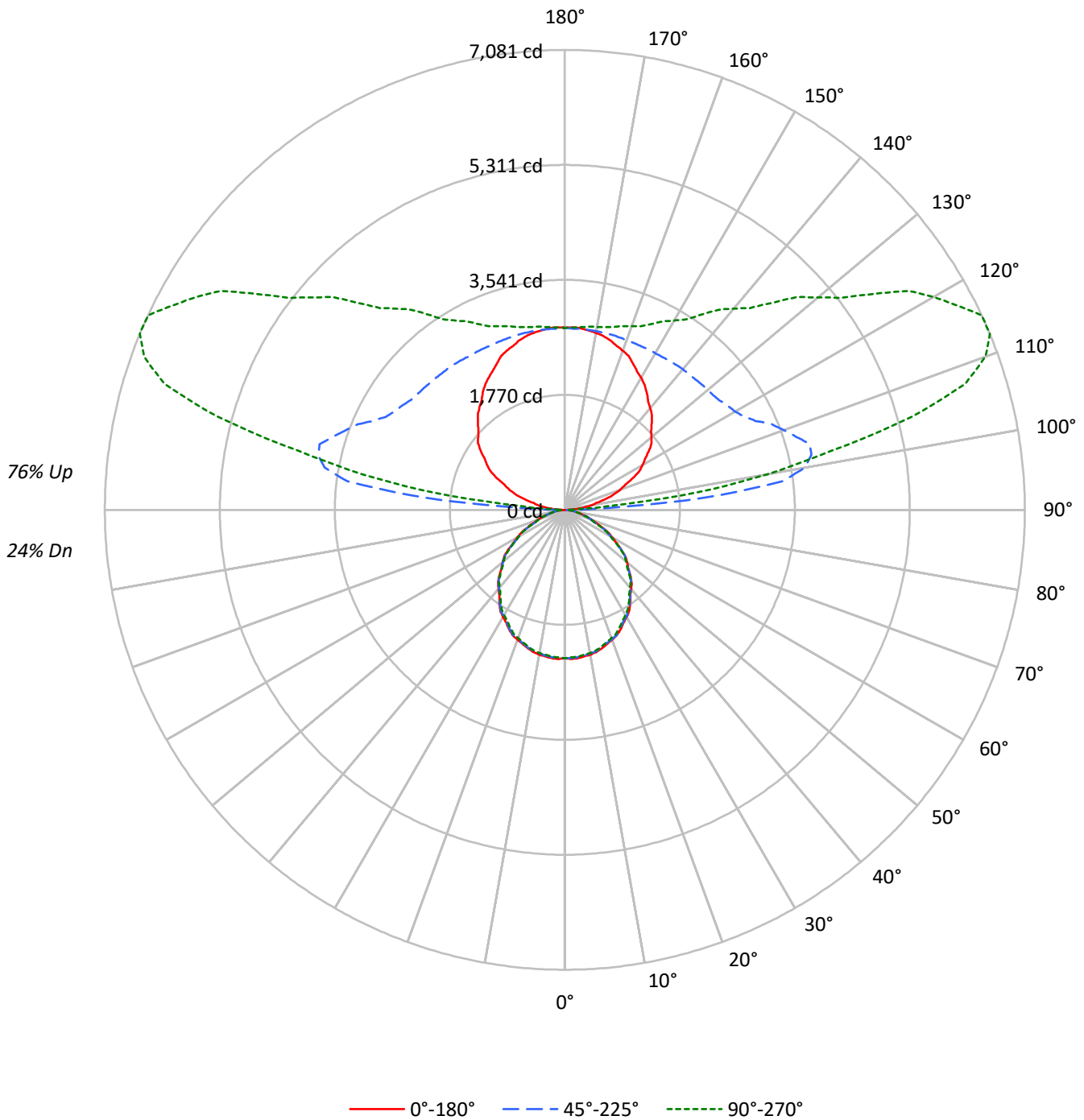
Input Watts (W): 168.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	24
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21
2	84	77	71	66	74	69	64	60	53	50	47	39	37	35	26	24	23	18
3	77	68	61	55	68	60	55	50	47	43	40	34	32	30	23	21	20	15
4	70	60	52	46	62	53	47	42	42	37	34	31	28	25	20	19	17	13
5	64	53	45	40	57	48	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	40	34	52	43	36	31	33	29	25	25	21	19	17	15	13	10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12	9
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	14	12	10	8
9	47	35	28	23	42	32	25	21	25	20	17	19	15	13	13	11	9	7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7027	7027	7027
5°	7079	7035	7011
10°	7067	7016	6985
15°	7020	6982	6943
20°	6973	6934	6881
25°	6890	6843	6775
30°	6763	6727	6642
35°	6586	6541	6458
40°	6375	6335	6263
45°	6201	6158	6097
50°	5979	5940	5883
55°	5669	5594	5551
60°	5161	5013	4988
65°	4547	4357	4343
70°	3926	3763	3763
75°	3379	3332	3283
80°	2979	3014	2943
85°	2332	2544	2544



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.1	0.9
10°-20°	616.9	2.6
20°-30°	924.1	3.9
30°-40°	1083.9	4.5
40°-50°	1087.3	4.5
50°-60°	927.5	3.9
60°-70°	604.9	2.5
70°-80°	303.5	1.3
80°-90°	89.8	0.4
90°-100°	1302.7	5.4
100°-110°	3522.1	14.7
110°-120°	3703.0	15.5
120°-130°	3007.8	12.6
130°-140°	2359.4	9.9
140°-150°	1810.8	7.6
150°-160°	1302.3	5.4
160°-170°	795.6	3.3
170°-180°	268.2	1.1
0°-30°	1757.0	7.3
0°-40°	2840.9	11.9
0°-60°	4855.7	20.3
0°-90°	5853.9	24.5
90°-120°	8527.7	35.6
90°-150°	15705.8	65.6
90°-180°	18072.0	75.5
0°-180°	23925.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2285	2285	2285	2285	2285	
5°	2293	2271	2279	2271	2271	218
15°	2205	2183	2193	2185	2181	622
25°	2031	2007	2016	1998	1996	934
35°	1754	1737	1742	1722	1720	1096
45°	1426	1416	1416	1402	1402	1098
55°	1057	1053	1043	1037	1035	940
65°	625	613	599	595	597	624
75°	284	284	280	278	276	309
85°	66	72	72	72	72	78
90°	6	18	39	42	39	16
95°	202	710	2166	1121	667	212
105°	655	1012	3907	5764	5528	690
115°	1153	1409	3240	6273	7081	1138
125°	1578	1808	2921	4929	5790	1407
135°	1892	2116	2842	3980	4505	1462
145°	2200	2365	2803	3406	3666	1376
155°	2483	2580	2779	3056	3156	1145
165°	2703	2730	2791	2900	2915	762
175°	2806	2803	2794	2830	2824	266
180°	2803	2803	2803	2803	2803	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2284.9	2284.9	2284.9	2284.9	2284.9
2.5°	2299.3	2280.5	2284.9	2281.5	2272.1
5°	2292.9	2271.4	2278.9	2270.9	2270.9
7.5°	2277.3	2253.8	2261.2	2253.2	2252.8
10°	2262.9	2239.4	2246.8	2238.8	2236.8
12.5°	2242.0	2218.5	2227.6	2218.0	2217.6
15°	2204.8	2183.2	2192.8	2184.7	2180.7
17.5°	2162.7	2139.2	2150.7	2139.5	2137.9
20°	2130.7	2107.2	2118.7	2102.6	2102.6
22.5°	2092.2	2068.7	2081.8	2061.0	2061.0
25°	2030.6	2007.1	2016.5	1998.5	1996.5
27.5°	1957.3	1934.2	1944.0	1923.6	1923.2
30°	1904.4	1882.9	1894.4	1872.3	1870.4
32.5°	1846.7	1826.8	1835.1	1813.0	1811.1
35°	1754.2	1736.6	1742.2	1722.1	1720.2
37.5°	1656.9	1638.9	1645.3	1628.0	1627.3
40°	1588.0	1576.3	1578.0	1563.9	1560.0
42.5°	1523.9	1510.6	1512.3	1498.3	1497.5
45°	1425.8	1416.0	1415.8	1401.8	1401.8
47.5°	1321.7	1314.2	1312.1	1300.4	1300.0
50°	1249.6	1243.7	1241.6	1231.5	1229.5
52.5°	1174.3	1171.5	1164.7	1156.2	1155.9
55°	1057.3	1053.4	1043.3	1037.3	1035.3
57.5°	930.4	922.5	911.1	902.4	903.9
60°	839.1	831.2	815.0	811.0	811.0
62.5°	750.9	741.5	725.3	719.8	722.9
65°	624.8	613.0	598.8	594.8	596.8
67.5°	510.2	499.7	484.2	484.2	482.6
70°	436.6	430.7	418.5	418.5	418.5
72.5°	370.9	368.1	359.3	359.2	357.7
75°	284.4	284.4	280.4	278.3	276.3
77.5°	213.1	213.9	211.9	209.8	206.3
80°	168.2	172.1	170.2	168.2	166.2
82.5°	126.6	130.5	130.2	126.6	126.2
85°	66.1	72.0	72.1	72.1	72.1
87.5°	18.8	27.5	33.5	34.1	35.1
90°	6.0	17.8	39.2	42.2	39.2
92.5°	85.7	312.3	616.1	267.5	193.7
95°	202.2	709.6	2166.4	1121.1	666.8
97.5°	324.7	813.8	3376.9	2794.6	2052.3
100°	416.4	855.9	3753.4	3914.4	3165.0
102.5°	500.9	914.5	3886.2	4763.5	4203.0
105°	654.7	1011.7	3907.3	5763.5	5527.5
107.5°	797.1	1122.8	3736.5	6387.4	6465.9
110°	908.2	1203.2	3584.4	6554.9	6888.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1007.1	1283.3	3444.4	6521.4	7081.4
115°	1152.6	1409.2	3240.5	6273.0	7081.4
117.5°	1295.0	1535.7	3105.9	5893.5	6809.8
120°	1381.9	1617.9	3026.3	5621.2	6556.4
122.5°	1463.9	1695.2	2978.0	5329.3	6271.6
125°	1578.0	1808.1	2920.7	4928.6	5790.0
127.5°	1683.0	1909.0	2886.9	4601.6	5359.2
130°	1740.9	1974.0	2872.4	4399.5	5084.0
132.5°	1801.3	2032.0	2857.9	4217.3	4847.4
135°	1891.8	2116.0	2842.2	3979.6	4504.7
137.5°	1982.9	2194.7	2828.9	3786.7	4214.4
140°	2045.7	2243.3	2824.1	3662.5	4043.1
142.5°	2106.0	2291.9	2814.4	3550.4	3883.7
145°	2199.5	2364.7	2803.0	3406.3	3665.9
147.5°	2284.6	2431.0	2789.7	3275.8	3475.2
150°	2347.4	2477.2	2784.9	3204.9	3364.2
152.5°	2405.3	2518.6	2782.5	3139.1	3270.0
155°	2483.2	2580.5	2778.8	3055.7	3156.0
157.5°	2564.0	2631.9	2779.4	2997.6	3063.7
160°	2609.9	2665.9	2781.9	2960.9	3008.2
162.5°	2646.1	2692.7	2784.3	2931.7	2967.1
165°	2703.4	2730.0	2790.9	2899.9	2914.6
167.5°	2742.6	2760.9	2791.5	2872.5	2879.6
170°	2766.8	2775.6	2793.9	2860.3	2860.3
172.5°	2786.1	2787.9	2793.9	2845.8	2843.4
175°	2806.0	2803.0	2793.9	2830.0	2824.1
177.5°	2812.6	2805.6	2793.3	2817.3	2810.2
180°	2803.0	2803.0	2803.0	2803.0	2803.0

(END OF REPORT)