

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: P563753

Luminaire Tested: **SQ4-PP3-150U-050D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563753
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-830-1D-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22583.3 lumens
Efficiency: N/A
Efficacy: 133.7 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

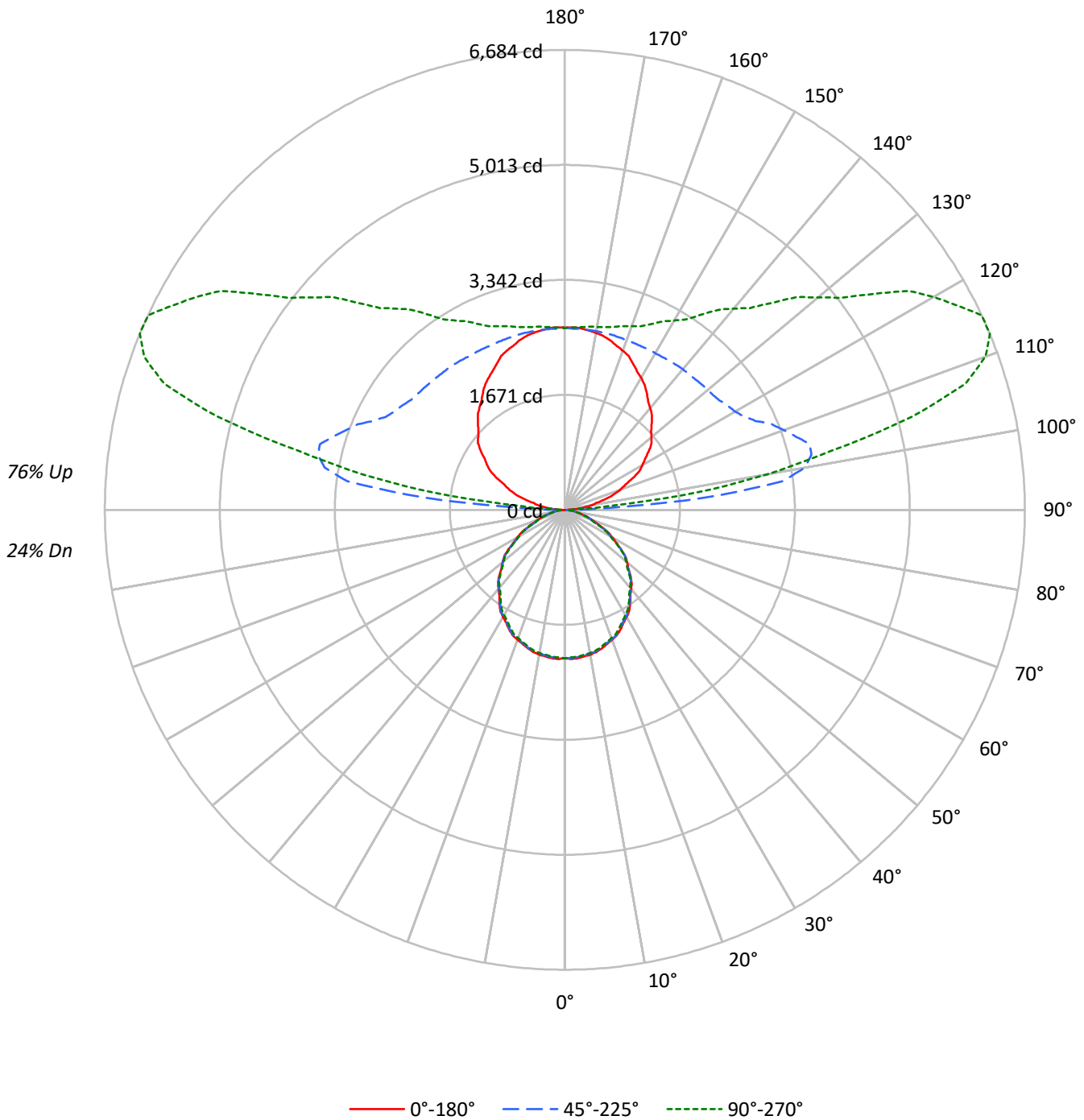
Input Watts (W): 168.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	6633	6633	6633
5°	6681	6640	6617
10°	6670	6623	6593
15°	6626	6590	6554
20°	6582	6545	6495
25°	6504	6459	6395
30°	6383	6350	6269
35°	6216	6174	6096
40°	6018	5980	5911
45°	5853	5812	5755
50°	5643	5607	5553
55°	5351	5280	5240
60°	4871	4732	4708
65°	4291	4113	4099
70°	3706	3552	3552
75°	3189	3144	3099
80°	2812	2846	2779
85°	2202	2399	2399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.9	0.9
10°-20°	582.3	2.6
20°-30°	872.2	3.9
30°-40°	1023.1	4.5
40°-50°	1026.2	4.5
50°-60°	875.5	3.9
60°-70°	570.9	2.5
70°-80°	286.5	1.3
80°-90°	84.8	0.4
90°-100°	1229.6	5.4
100°-110°	3324.5	14.7
110°-120°	3495.2	15.5
120°-130°	2839.1	12.6
130°-140°	2227.0	9.9
140°-150°	1709.2	7.6
150°-160°	1229.3	5.4
160°-170°	750.9	3.3
170°-180°	253.2	1.1
0°-30°	1658.4	7.3
0°-40°	2681.5	11.9
0°-60°	4583.2	20.3
0°-90°	5525.4	24.5
90°-120°	8049.2	35.6
90°-150°	14824.5	65.6
90°-180°	17058.0	75.5
0°-180°	22583.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2157	2157	2157	2157	2157	
5°	2164	2144	2151	2143	2143	206
15°	2081	2061	2070	2062	2058	587
25°	1917	1894	1903	1886	1884	881
35°	1656	1639	1644	1626	1624	1034
45°	1346	1337	1336	1323	1323	1036
55°	998	994	985	979	977	887
65°	590	579	565	561	563	589
75°	268	268	265	263	261	291
85°	62	68	68	68	68	73
90°	6	17	37	40	37	15
95°	191	670	2045	1058	629	200
105°	618	955	3688	5440	5217	651
115°	1088	1330	3059	5921	6684	1074
125°	1490	1707	2757	4652	5465	1328
135°	1786	1997	2683	3756	4252	1380
145°	2076	2232	2646	3215	3460	1299
155°	2344	2436	2623	2884	2979	1081
165°	2552	2577	2634	2737	2751	719
175°	2649	2646	2637	2671	2666	251
180°	2646	2646	2646	2646	2646	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2156.7	2156.7	2156.7	2156.7	2156.7
2.5°	2170.3	2152.5	2156.7	2153.5	2144.6
5°	2164.2	2143.9	2151.0	2143.4	2143.4
7.5°	2149.5	2127.3	2134.4	2126.8	2126.4
10°	2135.9	2113.7	2120.8	2113.2	2111.3
12.5°	2116.2	2094.1	2102.6	2093.5	2093.2
15°	2081.1	2060.7	2069.7	2062.1	2058.4
17.5°	2041.4	2019.2	2030.0	2019.4	2017.9
20°	2011.1	1989.0	1999.8	1984.7	1984.7
22.5°	1974.8	1952.7	1965.0	1945.4	1945.4
25°	1916.6	1894.5	1903.4	1886.3	1884.5
27.5°	1847.4	1825.6	1835.0	1815.7	1815.3
30°	1797.5	1777.2	1788.1	1767.3	1765.4
32.5°	1743.1	1724.3	1732.1	1711.3	1709.5
35°	1655.8	1639.2	1644.4	1625.5	1623.7
37.5°	1563.9	1546.9	1553.0	1536.7	1535.9
40°	1498.9	1487.8	1489.5	1476.1	1472.4
42.5°	1438.4	1425.8	1427.5	1414.2	1413.5
45°	1345.8	1336.6	1336.3	1323.1	1323.1
47.5°	1247.5	1240.5	1238.4	1227.5	1227.1
50°	1179.5	1173.9	1171.9	1162.4	1160.6
52.5°	1108.4	1105.8	1099.3	1091.4	1091.0
55°	998.0	994.3	984.8	979.1	977.2
57.5°	878.2	870.8	860.0	851.7	853.2
60°	792.0	784.6	769.3	765.5	765.5
62.5°	708.8	699.9	684.6	679.4	682.4
65°	589.7	578.6	565.2	561.4	563.3
67.5°	481.6	471.6	457.0	457.0	455.5
70°	412.1	406.5	395.0	395.0	395.0
72.5°	350.1	347.5	339.1	339.1	337.6
75°	268.4	268.4	264.6	262.7	260.8
77.5°	201.1	201.9	200.0	198.0	194.7
80°	158.8	162.5	160.7	158.7	156.9
82.5°	119.5	123.2	122.9	119.5	119.1
85°	62.4	67.9	68.0	68.0	68.0
87.5°	17.8	25.9	31.6	32.2	33.1
90°	5.7	16.8	37.0	39.8	37.0
92.5°	80.9	294.7	581.5	252.5	182.8
95°	190.8	669.8	2044.8	1058.2	629.4
97.5°	306.4	768.1	3187.4	2637.8	1937.2
100°	393.0	807.9	3542.8	3694.8	2987.5
102.5°	472.8	863.2	3668.1	4496.2	3967.1
105°	618.0	954.9	3688.0	5440.1	5217.4
107.5°	752.4	1059.8	3526.9	6029.0	6103.1
110°	857.2	1135.7	3383.3	6187.1	6501.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	950.6	1211.3	3251.2	6155.5	6684.1
115°	1087.9	1330.2	3058.7	5921.1	6684.1
117.5°	1222.3	1449.6	2931.6	5562.8	6427.7
120°	1304.3	1527.1	2856.5	5305.8	6188.5
122.5°	1381.8	1600.1	2810.9	5030.3	5919.7
125°	1489.5	1706.7	2756.8	4652.0	5465.1
127.5°	1588.6	1801.9	2724.9	4343.4	5058.5
130°	1643.2	1863.2	2711.2	4152.7	4798.7
132.5°	1700.2	1918.0	2697.5	3980.7	4575.5
135°	1785.6	1997.3	2682.7	3756.3	4251.9
137.5°	1871.6	2071.6	2670.2	3574.2	3978.0
140°	1930.9	2117.5	2665.6	3457.0	3816.2
142.5°	1987.8	2163.3	2656.5	3351.2	3665.8
145°	2076.1	2232.1	2645.7	3215.2	3460.2
147.5°	2156.4	2294.6	2633.2	3092.0	3280.2
150°	2215.7	2338.2	2628.6	3025.1	3175.4
152.5°	2270.4	2377.3	2626.3	2962.9	3086.6
155°	2343.8	2435.7	2622.9	2884.2	2978.9
157.5°	2420.2	2484.2	2623.5	2829.4	2891.8
160°	2463.4	2516.4	2625.8	2794.8	2839.4
162.5°	2497.6	2541.6	2628.1	2767.2	2800.6
165°	2551.7	2576.8	2634.3	2737.2	2751.1
167.5°	2588.8	2606.0	2634.9	2711.4	2718.0
170°	2611.5	2619.9	2637.2	2699.8	2699.8
172.5°	2629.8	2631.4	2637.2	2686.1	2683.9
175°	2648.6	2645.8	2637.2	2671.2	2665.6
177.5°	2654.8	2648.1	2636.6	2659.2	2652.5
180°	2645.7	2645.7	2645.7	2645.7	2645.7

(END OF REPORT)