

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: P563764

Luminaire Tested: **SQ4-PP3-150U-050D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563764
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-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

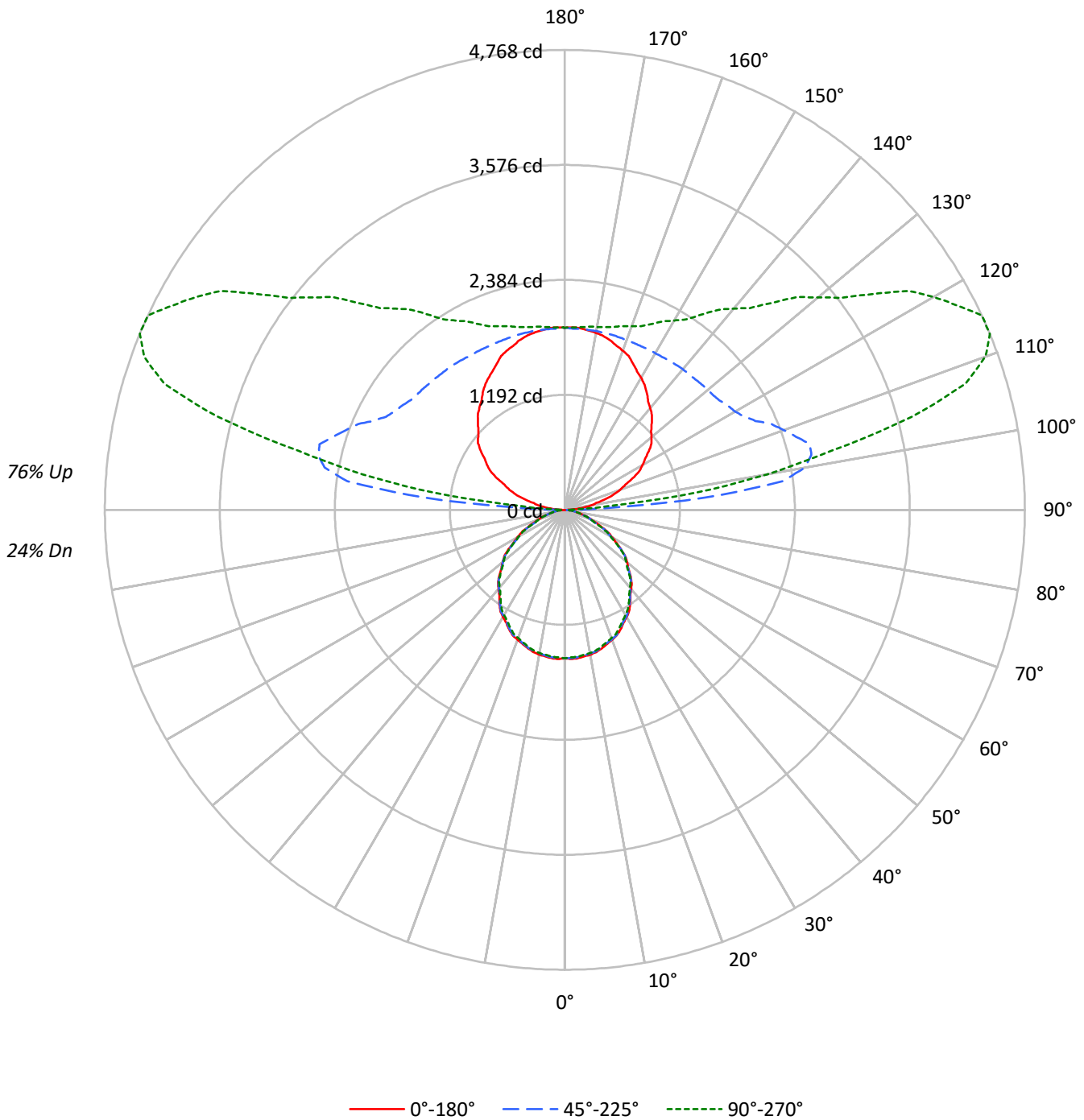
Lumens per Lamp: N/A
Luminaire Lumens: 16111.0 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 111.9
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°	7098	7098	7098
5°	7150	7106	7081
10°	7137	7087	7055
15°	7090	7052	7013
20°	7044	7004	6951
25°	6960	6912	6843
30°	6831	6795	6709
35°	6652	6607	6523
40°	6439	6399	6325
45°	6264	6220	6158
50°	6038	6000	5942
55°	5726	5650	5607
60°	5213	5063	5038
65°	4592	4401	4386
70°	3965	3801	3801
75°	3413	3365	3317
80°	3010	3044	2973
85°	2355	2567	2567



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	0.9
10°-20°	415.4	2.6
20°-30°	622.2	3.9
30°-40°	729.9	4.5
40°-50°	732.1	4.5
50°-60°	624.6	3.9
60°-70°	407.3	2.5
70°-80°	204.4	1.3
80°-90°	60.5	0.4
90°-100°	877.2	5.4
100°-110°	2371.7	14.7
110°-120°	2493.5	15.5
120°-130°	2025.4	12.6
130°-140°	1588.7	9.9
140°-150°	1219.4	7.6
150°-160°	877.0	5.4
160°-170°	535.7	3.3
170°-180°	180.6	1.1
0°-30°	1183.1	7.3
0°-40°	1913.0	11.9
0°-60°	3269.7	20.3
0°-90°	3941.8	24.5
90°-120°	5742.4	35.6
90°-150°	10575.8	65.6
90°-180°	12169.0	75.5
0°-180°	16111.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1539	1539	1539	1539	1539	
5°	1544	1530	1534	1529	1529	147
15°	1485	1470	1477	1471	1468	419
25°	1367	1352	1358	1346	1344	629
35°	1181	1169	1173	1160	1158	738
45°	960	954	953	944	944	739
55°	712	709	702	698	697	633
65°	421	413	403	400	402	420
75°	192	192	189	187	186	208
85°	44	48	48	48	48	52
90°	4	12	26	28	26	11
95°	136	478	1459	755	449	142
105°	441	681	2631	3881	3722	464
115°	776	949	2182	4224	4768	766
125°	1063	1218	1967	3319	3899	947
135°	1274	1425	1914	2680	3033	984
145°	1481	1592	1888	2294	2468	927
155°	1672	1738	1871	2058	2125	771
165°	1820	1838	1879	1953	1963	513
175°	1890	1888	1881	1906	1902	179
180°	1888	1888	1888	1888	1888	

TEST NUMBER: P563764

CATALOG NUMBER: SQ4-PP3-150U-050D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1538.6	1538.6	1538.6	1538.6	1538.6
2.5°	1548.3	1535.6	1538.6	1536.3	1530.0
5°	1544.0	1529.5	1534.5	1529.1	1529.1
7.5°	1533.5	1517.6	1522.7	1517.3	1517.0
10°	1523.7	1507.9	1513.0	1507.5	1506.2
12.5°	1509.7	1493.9	1500.0	1493.5	1493.3
15°	1484.6	1470.1	1476.6	1471.1	1468.5
17.5°	1456.3	1440.5	1448.2	1440.7	1439.6
20°	1434.8	1418.9	1426.7	1415.9	1415.9
22.5°	1408.9	1393.0	1401.8	1387.8	1387.8
25°	1367.3	1351.5	1357.9	1345.7	1344.4
27.5°	1318.0	1302.4	1309.1	1295.3	1295.1
30°	1282.4	1267.9	1275.6	1260.8	1259.5
32.5°	1243.5	1230.1	1235.7	1220.9	1219.5
35°	1181.2	1169.4	1173.2	1159.6	1158.3
37.5°	1115.7	1103.6	1107.9	1096.3	1095.7
40°	1069.3	1061.4	1062.6	1053.1	1050.4
42.5°	1026.2	1017.2	1018.3	1008.9	1008.4
45°	960.1	953.5	953.4	943.9	943.9
47.5°	890.0	885.0	883.5	875.7	875.4
50°	841.4	837.5	836.0	829.3	827.9
52.5°	790.7	788.9	784.3	778.6	778.3
55°	712.0	709.3	702.5	698.5	697.1
57.5°	626.5	621.2	613.5	607.6	608.7
60°	565.0	559.7	548.8	546.1	546.1
62.5°	505.7	499.3	488.4	484.7	486.8
65°	420.7	412.8	403.2	400.5	401.8
67.5°	343.6	336.5	326.1	326.0	325.0
70°	294.0	290.0	281.8	281.8	281.8
72.5°	249.7	247.9	241.9	241.9	240.8
75°	191.5	191.5	188.8	187.4	186.1
77.5°	143.5	144.0	142.7	141.3	138.9
80°	113.3	115.9	114.6	113.2	111.9
82.5°	85.2	87.9	87.6	85.2	85.0
85°	44.5	48.5	48.5	48.5	48.5
87.5°	12.7	18.5	22.5	23.0	23.6
90°	4.1	12.0	26.4	28.4	26.4
92.5°	57.7	210.3	414.9	180.1	130.4
95°	136.1	477.8	1458.8	754.9	449.0
97.5°	218.6	548.0	2273.9	1881.8	1382.0
100°	280.4	576.4	2527.4	2635.8	2131.3
102.5°	337.3	615.8	2616.8	3207.6	2830.2
105°	440.9	681.3	2631.1	3881.0	3722.1
107.5°	536.8	756.1	2516.1	4301.1	4354.0
110°	611.5	810.2	2413.7	4413.9	4638.4



TEST NUMBER: P563764

CATALOG NUMBER: SQ4-PP3-150U-050D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	678.2	864.1	2319.4	4391.4	4768.4
115°	776.1	948.9	2182.1	4224.1	4768.4
117.5°	872.0	1034.1	2091.4	3968.5	4585.6
120°	930.5	1089.4	2037.8	3785.2	4414.9
122.5°	985.8	1141.5	2005.3	3588.6	4223.1
125°	1062.6	1217.5	1966.7	3318.8	3898.8
127.5°	1133.3	1285.5	1943.9	3098.6	3608.7
130°	1172.3	1329.2	1934.2	2962.5	3423.4
132.5°	1212.9	1368.3	1924.4	2839.8	3264.1
135°	1273.9	1424.9	1913.9	2679.7	3033.3
137.5°	1335.2	1477.9	1904.9	2549.8	2837.9
140°	1377.5	1510.6	1901.7	2466.2	2722.5
142.5°	1418.1	1543.3	1895.2	2390.7	2615.2
145°	1481.1	1592.4	1887.5	2293.7	2468.5
147.5°	1538.4	1636.9	1878.5	2205.8	2340.1
150°	1580.7	1668.1	1875.3	2158.1	2265.4
152.5°	1619.7	1696.0	1873.6	2113.8	2202.0
155°	1672.1	1737.7	1871.2	2057.6	2125.2
157.5°	1726.5	1772.2	1871.6	2018.5	2063.0
160°	1757.4	1795.2	1873.2	1993.8	2025.6
162.5°	1781.8	1813.2	1874.9	1974.1	1998.0
165°	1820.4	1838.3	1879.3	1952.7	1962.6
167.5°	1846.8	1859.1	1879.7	1934.3	1939.1
170°	1863.1	1869.0	1881.4	1926.1	1926.1
172.5°	1876.1	1877.3	1881.4	1916.3	1914.7
175°	1889.5	1887.5	1881.4	1905.7	1901.7
177.5°	1894.0	1889.2	1881.0	1897.1	1892.3
180°	1887.5	1887.5	1887.5	1887.5	1887.5

(END OF REPORT)