

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: P561766

Luminaire Tested: **SQ4-PC3-150U-125D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561766
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-150U-125D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11672.6 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

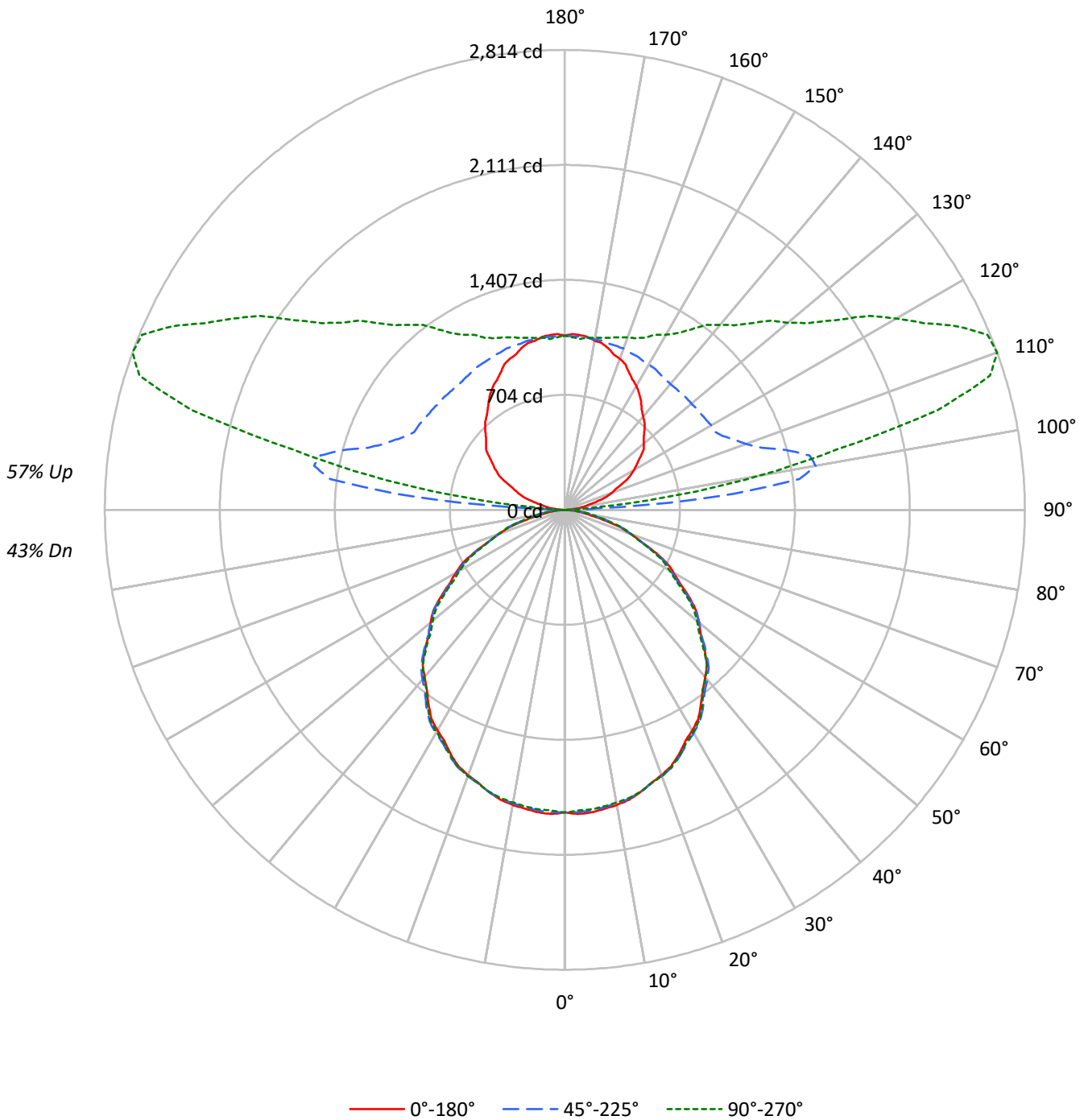
Input Watts (W): 107
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50	43				
1	96	92	88	85	88	84	81	78	70	68	65	57	55	54	44	43	42	37				
2	88	80	74	69	80	74	69	64	61	57	54	50	47	45	39	37	36	31				
3	80	71	63	58	73	65	59	54	54	49	45	44	41	38	34	32	30	26				
4	73	62	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22				
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19				
6	62	50	42	36	56	46	39	34	38	33	29	32	27	24	25	22	20	17				
7	57	45	37	31	52	41	34	29	35	29	25	29	25	21	23	20	18	15				
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13				
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12				
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17086	17086	17086
5°	17214	17103	17040
10°	17173	17092	17044
15°	17082	17082	17066
20°	16970	17021	17021
25°	16810	16932	16879
30°	16606	16806	16733
35°	16359	16609	16494
40°	16088	16315	16150
45°	15796	15908	15661
50°	15383	15383	15136
55°	14893	14700	14480
60°	14175	13891	13670
65°	13101	12839	12728
70°	11470	11564	11519
75°	9229	10209	10270
80°	6562	8655	8745
85°	3991	7262	7262



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.3	1.5
10°-20°	502.9	4.3
20°-30°	761.6	6.5
30°-40°	913.1	7.8
40°-50°	931.1	8.0
50°-60°	812.8	7.0
60°-70°	581.9	5.0
70°-80°	299.7	2.6
80°-90°	75.8	0.6
90°-100°	485.5	4.2
100°-110°	1381.5	11.8
110°-120°	1323.6	11.3
120°-130°	1047.6	9.0
130°-140°	840.8	7.2
140°-150°	658.3	5.6
150°-160°	481.7	4.1
160°-170°	298.3	2.6
170°-180°	101.2	0.9
0°-30°	1439.9	12.3
0°-40°	2353.0	20.2
0°-60°	4096.8	35.1
0°-90°	5054.1	43.3
90°-120°	3190.6	27.3
90°-150°	5737.2	49.2
90°-180°	6618.0	56.7
0°-180°	11672.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1852	1852	1852	1852	1852	
5°	1859	1840	1847	1842	1840	176
15°	1788	1773	1788	1788	1787	504
25°	1651	1640	1663	1658	1658	760
35°	1452	1449	1475	1464	1464	908
45°	1211	1207	1219	1204	1200	932
55°	926	914	914	900	900	825
65°	600	587	588	583	583	594
75°	259	271	286	288	288	280
85°	38	58	69	70	69	51
90°	0	0	0	0	0	4
95°	53	209	940	325	200	60
105°	215	326	1408	2487	2364	227
115°	399	482	1068	2262	2656	393
125°	563	624	1019	1691	2022	504
135°	689	746	1007	1428	1614	531
145°	812	854	1015	1236	1347	507
155°	928	950	1039	1117	1163	429
165°	1025	1029	1051	1074	1090	288
175°	1074	1068	1064	1057	1049	102
180°	1066	1066	1066	1066	1066	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1851.9	1851.9	1851.9	1851.9	1851.9
2.5°	1862.9	1846.8	1851.9	1847.6	1840.9
5°	1858.7	1840.3	1846.7	1841.6	1839.9
7.5°	1845.4	1826.9	1835.4	1832.0	1830.3
10°	1833.0	1814.6	1824.4	1821.0	1819.3
12.5°	1816.6	1799.5	1810.7	1807.3	1807.0
15°	1788.4	1773.4	1788.4	1788.4	1786.7
17.5°	1753.1	1739.4	1755.5	1756.5	1755.5
20°	1728.4	1713.3	1733.6	1731.9	1733.6
22.5°	1698.2	1685.8	1707.5	1703.1	1704.8
25°	1651.3	1639.5	1663.3	1658.1	1658.1
27.5°	1595.7	1587.3	1613.2	1607.7	1607.7
30°	1558.7	1550.3	1577.5	1570.7	1570.7
32.5°	1517.5	1511.8	1537.8	1529.5	1529.5
35°	1452.4	1449.0	1474.6	1464.4	1464.4
37.5°	1385.1	1382.1	1405.4	1392.9	1388.9
40°	1335.8	1334.1	1354.6	1340.9	1340.9
42.5°	1286.4	1284.7	1302.5	1286.0	1286.0
45°	1210.6	1207.2	1219.2	1203.6	1200.3
47.5°	1127.9	1124.6	1132.1	1115.2	1113.5
50°	1071.7	1068.3	1071.7	1056.2	1054.5
52.5°	1014.1	1008.0	1008.6	993.2	992.8
55°	925.9	914.2	913.9	900.2	900.2
57.5°	832.7	817.2	818.6	806.9	805.2
60°	768.2	751.4	752.8	742.4	740.8
62.5°	705.1	685.6	689.7	678.0	677.7
65°	600.1	586.7	588.1	583.0	583.0
67.5°	499.3	486.9	495.9	491.8	491.4
70°	425.2	416.9	428.7	428.6	427.0
72.5°	356.7	356.3	371.1	371.1	372.1
75°	258.9	270.7	286.4	288.1	288.1
77.5°	172.8	193.6	210.9	211.6	211.3
80°	123.5	146.9	162.9	166.3	164.6
82.5°	83.7	108.5	121.7	125.1	123.5
85°	37.7	57.8	68.6	70.3	68.6
87.5°	11.0	23.0	27.4	27.4	24.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.2	85.9	199.3	58.0	43.8
95°	52.7	209.1	939.9	325.3	200.5
97.5°	96.8	245.0	1447.5	1035.8	709.8
100°	127.6	266.3	1557.7	1577.8	1215.4
102.5°	161.6	289.2	1533.4	2019.7	1703.2
105°	214.7	325.6	1407.8	2486.7	2363.9
107.5°	268.6	368.0	1261.2	2618.4	2727.7
110°	305.9	399.0	1176.9	2568.0	2813.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	341.5	429.9	1120.2	2448.9	2799.0
115°	399.1	482.2	1067.5	2261.5	2655.6
117.5°	449.7	527.7	1036.3	2056.6	2474.1
120°	490.2	555.6	1033.1	1939.5	2339.6
122.5°	522.6	588.0	1025.0	1836.8	2208.4
125°	563.1	624.5	1018.9	1690.8	2021.6
127.5°	607.3	664.7	1015.7	1603.6	1876.1
130°	630.0	687.4	1010.8	1542.9	1780.5
132.5°	654.3	710.1	1010.8	1495.4	1714.1
135°	688.7	746.2	1006.7	1428.3	1614.4
137.5°	721.1	777.0	1006.3	1371.4	1532.2
140°	745.4	802.9	1004.7	1324.2	1478.7
142.5°	773.0	820.9	1009.6	1286.6	1425.2
145°	812.3	853.9	1014.8	1236.1	1347.0
147.5°	845.9	886.3	1023.8	1185.2	1281.0
150°	875.1	902.8	1027.0	1168.3	1235.6
152.5°	897.8	927.1	1030.2	1145.5	1208.1
155°	927.7	949.5	1039.2	1117.2	1162.7
157.5°	965.0	978.1	1041.2	1104.3	1136.8
160°	984.5	994.4	1049.3	1094.5	1122.2
162.5°	995.8	1007.3	1050.9	1086.2	1107.6
165°	1025.0	1028.9	1051.3	1073.9	1089.8
167.5°	1044.8	1041.3	1060.6	1070.9	1077.2
170°	1051.3	1049.3	1057.4	1059.6	1067.5
172.5°	1065.9	1059.2	1062.2	1056.3	1062.6
175°	1073.6	1067.6	1063.5	1057.2	1049.3
177.5°	1076.8	1067.3	1062.2	1055.8	1057.4
180°	1065.5	1065.5	1065.5	1065.5	1065.5

(END OF REPORT)