

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: P563104

Luminaire Tested: **SQ4-PC3-150U-050D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563104
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-050D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

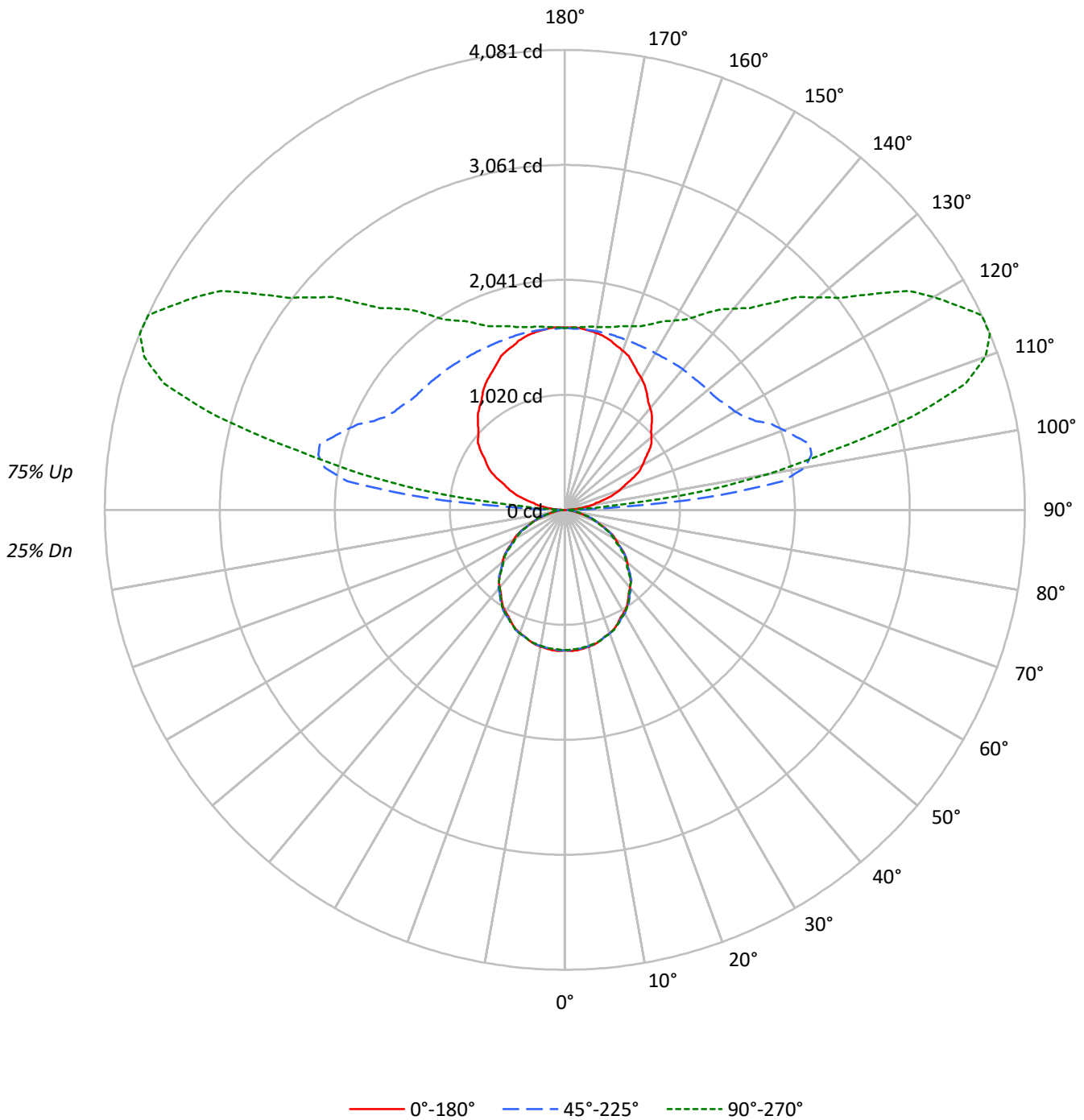
Lumens per Lamp: N/A
Luminaire Lumens: 13821.1 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

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	0
RCR																		
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	25
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	59	53	50	47	39	37	35	26	24	23	17
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	23	21	20	15
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	13
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	39	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10
7	54	42	35	29	48	38	31	27	30	25	22	22	19	16	15	13	11	8
8	50	38	31	26	44	34	28	24	27	22	19	20	17	15	14	12	10	8
9	47	35	28	23	41	31	25	21	25	20	17	18	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°	5751	5751	5751
5°	5794	5757	5736
10°	5780	5753	5737
15°	5750	5750	5745
20°	5712	5729	5729
25°	5659	5699	5682
30°	5589	5657	5633
35°	5507	5591	5552
40°	5416	5492	5436
45°	5317	5355	5272
50°	5178	5178	5095
55°	5014	4949	4874
60°	4772	4676	4601
65°	4410	4321	4284
70°	3862	3893	3876
75°	3107	3436	3456
80°	2208	2914	2943
85°	1344	2445	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	0.9
10°-20°	338.6	2.4
20°-30°	512.8	3.7
30°-40°	614.7	4.4
40°-50°	626.8	4.5
50°-60°	547.2	4.0
60°-70°	391.7	2.8
70°-80°	201.8	1.5
80°-90°	54.4	0.4
90°-100°	750.7	5.4
100°-110°	2029.9	14.7
110°-120°	2134.1	15.4
120°-130°	1733.5	12.5
130°-140°	1359.8	9.8
140°-150°	1043.6	7.6
150°-160°	750.6	5.4
160°-170°	458.5	3.3
170°-180°	154.6	1.1
0°-30°	969.3	7.0
0°-40°	1584.1	11.5
0°-60°	2758.0	20.0
0°-90°	3405.9	24.6
90°-120°	4914.7	35.6
90°-150°	9051.5	65.5
90°-180°	10415.0	75.4
0°-180°	13821.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1251	1239	1243	1240	1239	119
15°	1204	1194	1204	1204	1203	339
25°	1112	1104	1120	1116	1116	512
35°	978	976	993	986	986	611
45°	815	813	821	810	808	627
55°	623	616	615	606	606	556
65°	404	395	396	392	392	400
75°	174	182	193	194	194	188
85°	25	39	46	47	46	35
90°	4	10	23	24	23	9
95°	116	409	1248	646	384	122
105°	377	583	2252	3322	3186	397
115°	664	812	1868	3615	4081	656
125°	909	1042	1683	2840	3337	811
135°	1090	1220	1638	2294	2596	843
145°	1268	1363	1615	1963	2113	793
155°	1431	1487	1602	1761	1819	660
165°	1558	1573	1608	1671	1680	439
175°	1617	1616	1610	1631	1628	154
180°	1615	1615	1615	1615	1615	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1246.7	1246.7	1246.7	1246.7	1246.7
2.5°	1254.1	1243.3	1246.7	1243.8	1239.3
5°	1251.3	1238.9	1243.3	1239.8	1238.6
7.5°	1242.3	1229.9	1235.6	1233.3	1232.2
10°	1234.0	1221.6	1228.2	1225.9	1224.8
12.5°	1222.9	1211.4	1219.0	1216.7	1216.5
15°	1204.0	1193.8	1204.0	1204.0	1202.9
17.5°	1180.2	1171.0	1181.8	1182.5	1181.8
20°	1163.6	1153.4	1167.1	1165.9	1167.1
22.5°	1143.3	1134.9	1149.5	1146.5	1147.7
25°	1111.7	1103.8	1119.7	1116.3	1116.3
27.5°	1074.3	1068.6	1086.0	1082.3	1082.3
30°	1049.3	1043.7	1062.0	1057.4	1057.4
32.5°	1021.6	1017.8	1035.2	1029.7	1029.7
35°	977.8	975.5	992.8	985.8	985.8
37.5°	932.5	930.5	946.1	937.7	935.0
40°	899.3	898.1	912.0	902.7	902.7
42.5°	866.0	864.9	876.9	865.8	865.8
45°	815.0	812.7	820.8	810.3	808.1
47.5°	759.3	757.1	762.1	750.8	749.6
50°	721.5	719.2	721.5	711.1	709.9
52.5°	682.7	678.6	679.0	668.6	668.4
55°	623.4	615.5	615.3	606.0	606.0
57.5°	560.6	550.2	551.1	543.2	542.1
60°	517.2	505.9	506.8	499.8	498.7
62.5°	474.7	461.6	464.3	456.4	456.2
65°	404.0	395.0	395.9	392.5	392.5
67.5°	336.2	327.8	333.8	331.1	330.8
70°	286.3	280.6	288.6	288.6	287.4
72.5°	240.1	239.9	249.8	249.8	250.5
75°	174.3	182.2	192.8	193.9	193.9
77.5°	116.4	130.4	142.0	142.4	142.2
80°	83.1	98.9	109.7	111.9	110.8
82.5°	56.3	73.0	82.0	84.2	83.1
85°	25.4	38.9	46.2	47.3	46.2
87.5°	8.1	17.6	23.0	23.3	21.1
90°	3.5	10.3	22.6	24.3	22.6
92.5°	49.4	180.0	355.1	154.1	111.6
95°	116.5	408.9	1248.5	646.1	384.3
97.5°	187.1	469.0	1946.1	1610.6	1182.8
100°	240.0	493.3	2163.2	2255.9	1824.1
102.5°	288.7	527.0	2239.7	2745.3	2422.3
105°	377.3	583.1	2251.8	3321.6	3185.6
107.5°	459.4	647.1	2153.4	3681.2	3726.4
110°	523.4	693.4	2065.8	3777.7	3969.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	580.4	739.6	1985.1	3758.4	4081.1
115°	664.3	812.2	1867.6	3615.3	4081.1
117.5°	746.3	885.1	1790.0	3396.5	3924.6
120°	796.4	932.4	1744.1	3239.6	3778.6
122.5°	843.7	977.0	1716.3	3071.4	3614.4
125°	909.4	1042.1	1683.2	2840.4	3336.9
127.5°	969.9	1100.2	1663.8	2652.0	3088.6
130°	1003.3	1137.6	1655.4	2535.6	2930.0
132.5°	1038.1	1171.1	1647.1	2430.5	2793.7
135°	1090.3	1219.5	1638.0	2293.5	2596.1
137.5°	1142.8	1264.9	1630.4	2182.3	2428.9
140°	1179.0	1292.9	1627.6	2110.8	2330.1
142.5°	1213.7	1320.8	1622.0	2046.2	2238.3
145°	1267.6	1362.9	1615.4	1963.1	2112.7
147.5°	1316.7	1401.0	1607.8	1887.9	2002.8
150°	1352.8	1427.7	1605.0	1847.0	1938.8
152.5°	1386.2	1451.5	1603.6	1809.1	1884.6
155°	1431.1	1487.2	1601.5	1761.1	1818.9
157.5°	1477.7	1516.8	1601.9	1727.6	1765.7
160°	1504.1	1536.4	1603.2	1706.5	1733.7
162.5°	1525.0	1551.9	1604.6	1689.6	1710.0
165°	1558.0	1573.3	1608.5	1671.3	1679.8
167.5°	1580.6	1591.2	1608.8	1655.5	1659.6
170°	1594.5	1599.6	1610.2	1648.5	1648.5
172.5°	1605.7	1606.7	1610.2	1640.1	1638.7
175°	1617.2	1615.5	1610.2	1631.0	1627.6
177.5°	1621.0	1616.9	1609.9	1623.7	1619.6
180°	1615.4	1615.4	1615.4	1615.4	1615.4

(END OF REPORT)