

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: P564448

Luminaire Tested: **SQ4-PR1-150U-050D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564448
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-150U-050D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

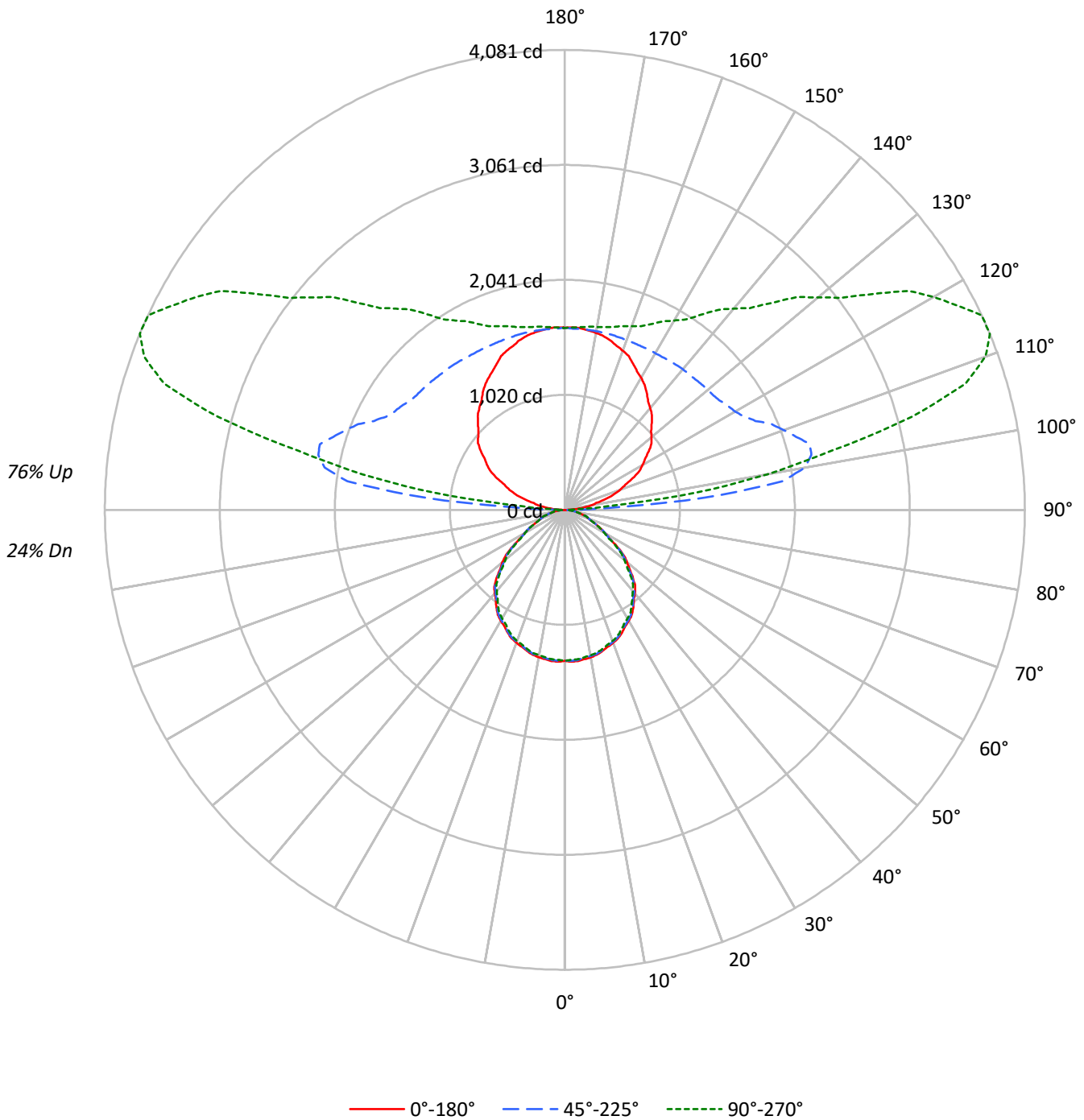
Lumens per Lamp: N/A
Luminaire Lumens: 13769.0 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6182	6182	6182
5°	6238	6190	6158
10°	6218	6175	6143
15°	6191	6153	6119
20°	6160	6120	6075
25°	6117	6075	6005
30°	6051	6008	5922
35°	5962	5909	5825
40°	5826	5763	5659
45°	5588	5490	5377
50°	5169	5045	4946
55°	4512	4410	4317
60°	3802	3770	3696
65°	3289	3301	3276
70°	3020	3036	3036
75°	2902	2902	2921
80°	2728	2760	2728
85°	2202	2445	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	0.9
10°-20°	362.6	2.6
20°-30°	546.9	4.0
30°-40°	651.7	4.7
40°-50°	642.5	4.7
50°-60°	491.0	3.6
60°-70°	303.9	2.2
70°-80°	172.6	1.3
80°-90°	55.9	0.4
90°-100°	750.7	5.5
100°-110°	2029.9	14.7
110°-120°	2134.1	15.5
120°-130°	1733.5	12.6
130°-140°	1359.8	9.9
140°-150°	1043.6	7.6
150°-160°	750.6	5.5
160°-170°	458.5	3.3
170°-180°	154.6	1.1
0°-30°	1036.3	7.5
0°-40°	1687.9	12.3
0°-60°	2821.5	20.5
0°-90°	3353.8	24.4
90°-120°	4914.7	35.7
90°-150°	9051.5	65.7
90°-180°	10415.0	75.6
0°-180°	13769.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1340	1340	1340	1340	1340	
5°	1347	1332	1337	1332	1330	128
15°	1296	1283	1288	1284	1281	366
25°	1202	1187	1194	1181	1180	553
35°	1059	1046	1049	1035	1034	661
45°	856	845	842	826	824	656
55°	561	552	548	539	537	503
65°	301	299	302	300	300	305
75°	163	163	163	164	164	172
85°	42	44	46	46	46	48
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	

TEST NUMBER: P564448

CATALOG NUMBER: SQ4-PR1-150U-050D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1340.2	1340.2	1340.2	1340.2	1340.2
2.5°	1348.5	1336.8	1340.2	1337.3	1331.0
5°	1347.1	1332.5	1336.8	1332.1	1329.8
7.5°	1336.8	1322.3	1326.6	1321.9	1320.6
10°	1327.5	1314.0	1318.3	1313.6	1311.4
12.5°	1317.4	1302.9	1308.1	1302.5	1300.3
15°	1296.4	1282.8	1288.3	1283.6	1281.3
17.5°	1273.3	1258.8	1264.3	1258.9	1256.0
20°	1254.8	1241.3	1246.7	1238.6	1237.5
22.5°	1234.5	1220.9	1226.4	1215.5	1215.3
25°	1201.7	1187.0	1193.6	1180.9	1179.8
27.5°	1162.7	1149.1	1154.6	1141.6	1140.3
30°	1135.9	1122.4	1127.8	1113.9	1111.7
32.5°	1105.4	1092.8	1097.3	1083.5	1082.1
35°	1058.6	1046.1	1049.3	1035.4	1034.3
37.5°	1005.2	993.9	995.8	980.5	979.4
40°	967.4	956.1	957.0	940.8	939.7
42.5°	925.8	914.5	913.6	897.4	896.2
45°	856.5	845.3	841.5	826.5	824.2
47.5°	777.6	766.3	759.3	747.1	745.5
50°	720.3	709.0	703.0	692.5	689.2
52.5°	658.5	647.2	642.1	632.5	629.1
55°	561.0	552.0	548.3	539.0	536.8
57.5°	468.4	462.3	461.3	452.3	451.4
60°	412.1	408.7	408.6	400.6	400.6
62.5°	364.1	361.6	363.4	358.1	357.2
65°	301.3	299.0	302.4	300.1	300.1
67.5°	251.7	251.7	253.7	252.8	252.8
70°	223.9	223.9	225.1	225.1	225.1
72.5°	199.0	198.1	201.1	201.1	200.2
75°	162.8	162.8	162.8	163.9	163.9
77.5°	126.7	127.0	127.9	127.7	126.7
80°	102.7	103.9	103.9	102.7	102.7
82.5°	78.7	79.9	79.9	79.6	78.7
85°	41.6	43.8	46.2	46.2	46.2
87.5°	12.7	17.7	23.0	23.3	22.1
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



TEST NUMBER: P564448

CATALOG NUMBER: SQ4-PR1-150U-050D-940-1D-UNV-STD-W-8

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)