

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: P561756

Luminaire Tested: **SQ4-PC3-150U-100D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561756
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-100D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

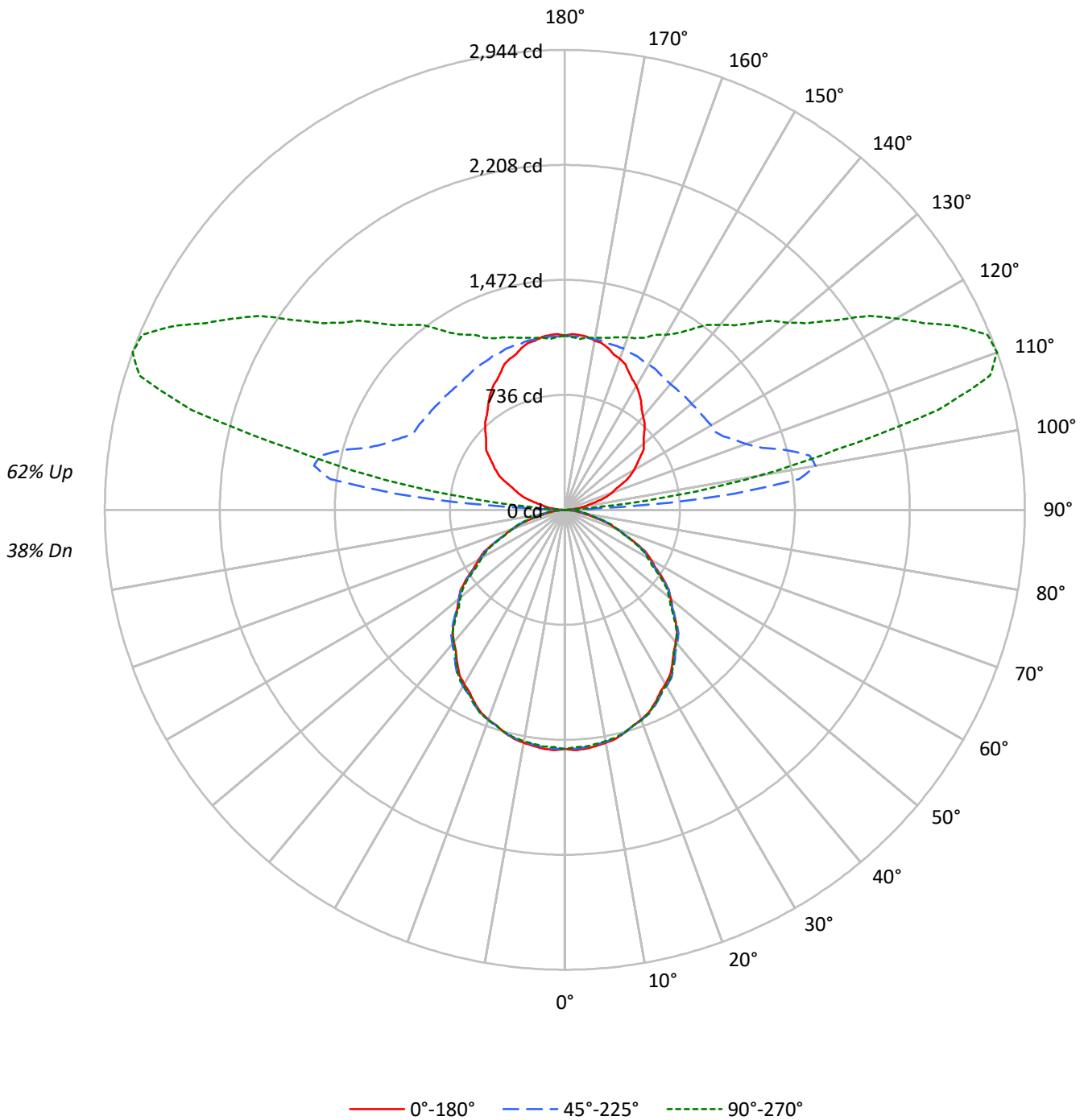
Lumens per Lamp: N/A
Luminaire Lumens: 11100.4 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 93.4
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	104	104	104	104	95	95	95	95	76	76	76	60	60	60	45	45	45	38				
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32				
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27				
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23				
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19				
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17				
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18	15				
7	56	44	36	31	51	40	33	29	33	28	24	27	23	20	20	18	16	13				
8	52	40	32	27	47	37	30	25	30	25	21	24	21	18	19	16	14	12				
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10				
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14118	14118	14118
5°	14225	14133	14080
10°	14190	14124	14084
15°	14115	14115	14102
20°	14023	14065	14065
25°	13891	13991	13948
30°	13721	13887	13827
35°	13517	13724	13628
40°	13294	13481	13345
45°	13052	13144	12941
50°	12711	12711	12508
55°	12307	12148	11966
60°	11714	11477	11295
65°	10826	10610	10516
70°	9479	9555	9517
75°	7625	8434	8484
80°	5419	7152	7226
85°	3303	6002	6002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	1.3
10°-20°	415.6	3.7
20°-30°	629.4	5.7
30°-40°	754.5	6.8
40°-50°	769.4	6.9
50°-60°	671.6	6.1
60°-70°	480.8	4.3
70°-80°	247.6	2.2
80°-90°	62.6	0.6
90°-100°	507.9	4.6
100°-110°	1445.2	13.0
110°-120°	1384.7	12.5
120°-130°	1095.9	9.9
130°-140°	879.7	7.9
140°-150°	688.7	6.2
150°-160°	503.9	4.5
160°-170°	312.1	2.8
170°-180°	105.9	1.0
0°-30°	1189.8	10.7
0°-40°	1944.3	17.5
0°-60°	3385.3	30.5
0°-90°	4176.3	37.6
90°-120°	3337.9	30.1
90°-150°	6002.1	54.1
90°-180°	6924.0	62.4
0°-180°	11100.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1536	1521	1526	1522	1520	146
15°	1478	1465	1478	1478	1476	417
25°	1364	1355	1374	1370	1370	628
35°	1200	1197	1218	1210	1210	751
45°	1000	998	1007	995	992	770
55°	765	755	755	744	744	682
65°	496	485	486	482	482	490
75°	214	224	237	238	238	231
85°	31	48	57	58	57	42
90°	0	0	0	0	0	4
95°	55	219	983	340	210	63
105°	225	341	1473	2602	2473	238
115°	418	504	1117	2366	2778	411
125°	589	653	1066	1769	2115	527
135°	720	781	1053	1494	1689	556
145°	850	893	1062	1293	1409	531
155°	971	993	1087	1169	1216	449
165°	1072	1076	1100	1124	1140	302
175°	1123	1117	1113	1106	1098	106
180°	1115	1115	1115	1115	1115	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1530.2	1530.2	1530.2	1530.2	1530.2
2.5°	1539.3	1526.0	1530.2	1526.7	1521.2
5°	1535.9	1520.7	1526.0	1521.7	1520.3
7.5°	1524.8	1509.6	1516.6	1513.8	1512.4
10°	1514.6	1499.4	1507.6	1504.7	1503.3
12.5°	1501.0	1486.9	1496.2	1493.4	1493.1
15°	1477.8	1465.3	1477.8	1477.8	1476.4
17.5°	1448.6	1437.3	1450.6	1451.4	1450.6
20°	1428.2	1415.7	1432.5	1431.1	1432.5
22.5°	1403.3	1393.0	1410.9	1407.3	1408.7
25°	1364.5	1354.8	1374.4	1370.1	1370.1
27.5°	1318.6	1311.6	1333.0	1328.5	1328.5
30°	1287.9	1281.0	1303.5	1297.9	1297.9
32.5°	1253.9	1249.2	1270.7	1263.9	1263.9
35°	1200.1	1197.3	1218.5	1210.0	1210.0
37.5°	1144.6	1142.1	1161.3	1151.0	1147.7
40°	1103.8	1102.4	1119.3	1108.0	1108.0
42.5°	1062.9	1061.6	1076.3	1062.7	1062.7
45°	1000.3	997.5	1007.4	994.6	991.8
47.5°	932.0	929.3	935.4	921.5	920.1
50°	885.6	882.8	885.6	872.8	871.4
52.5°	837.9	833.0	833.4	820.7	820.4
55°	765.1	755.4	755.2	743.9	743.9
57.5°	688.0	675.3	676.4	666.8	665.4
60°	634.8	620.9	622.0	613.5	612.1
62.5°	582.6	566.6	569.9	560.2	560.0
65°	495.9	484.8	486.0	481.7	481.7
67.5°	412.6	402.3	409.8	406.4	406.1
70°	351.4	344.5	354.2	354.2	352.8
72.5°	294.7	294.4	306.6	306.6	307.5
75°	213.9	223.6	236.6	238.0	238.0
77.5°	142.8	160.0	174.3	174.8	174.6
80°	102.0	121.4	134.6	137.4	136.0
82.5°	69.1	89.6	100.6	103.4	102.0
85°	31.2	47.8	56.7	58.1	56.7
87.5°	9.1	19.0	22.7	22.6	20.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	17.0	89.9	208.5	60.7	45.8
95°	55.1	218.8	983.3	340.3	209.8
97.5°	101.3	256.3	1514.4	1083.6	742.6
100°	133.5	278.6	1629.6	1650.7	1271.5
102.5°	169.1	302.6	1604.2	2112.9	1781.8
105°	224.6	340.7	1472.8	2601.5	2473.1
107.5°	281.0	385.0	1319.4	2739.3	2853.7
110°	320.0	417.4	1231.2	2686.6	2943.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	357.3	449.7	1171.9	2561.9	2928.3
115°	417.5	504.5	1116.8	2365.9	2778.2
117.5°	470.5	552.1	1084.2	2151.6	2588.3
120°	512.8	581.2	1080.8	2029.1	2447.6
122.5°	546.7	615.1	1072.3	1921.6	2310.3
125°	589.1	653.4	1065.9	1768.9	2114.9
127.5°	635.3	695.4	1062.5	1677.6	1962.8
130°	659.1	719.1	1057.5	1614.1	1862.7
132.5°	684.5	742.9	1057.5	1564.5	1793.2
135°	720.5	780.6	1053.2	1494.2	1689.0
137.5°	754.4	812.9	1052.8	1434.7	1602.9
140°	779.9	839.9	1051.1	1385.4	1547.0
142.5°	808.7	858.8	1056.2	1346.0	1491.0
145°	849.8	893.3	1061.7	1293.2	1409.2
147.5°	885.0	927.2	1071.0	1239.9	1340.2
150°	915.5	944.5	1074.4	1222.2	1292.7
152.5°	939.2	969.9	1077.8	1198.4	1263.9
155°	970.6	993.4	1087.1	1168.7	1216.4
157.5°	1009.6	1023.2	1089.2	1155.3	1189.3
160°	1029.9	1040.3	1097.7	1145.0	1174.0
162.5°	1041.8	1053.8	1099.4	1136.4	1158.8
165°	1072.3	1076.4	1099.8	1123.5	1140.1
167.5°	1093.1	1089.3	1109.6	1120.3	1127.0
170°	1099.8	1097.8	1106.2	1108.5	1116.8
172.5°	1115.1	1108.1	1111.3	1105.1	1111.7
175°	1123.2	1116.9	1112.6	1106.0	1097.7
177.5°	1126.5	1116.6	1111.3	1104.5	1106.2
180°	1114.7	1114.7	1114.7	1114.7	1114.7

(END OF REPORT)