

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: P562120

Luminaire Tested: **SQ4-PR1-150U-100D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562120
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-100D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE 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

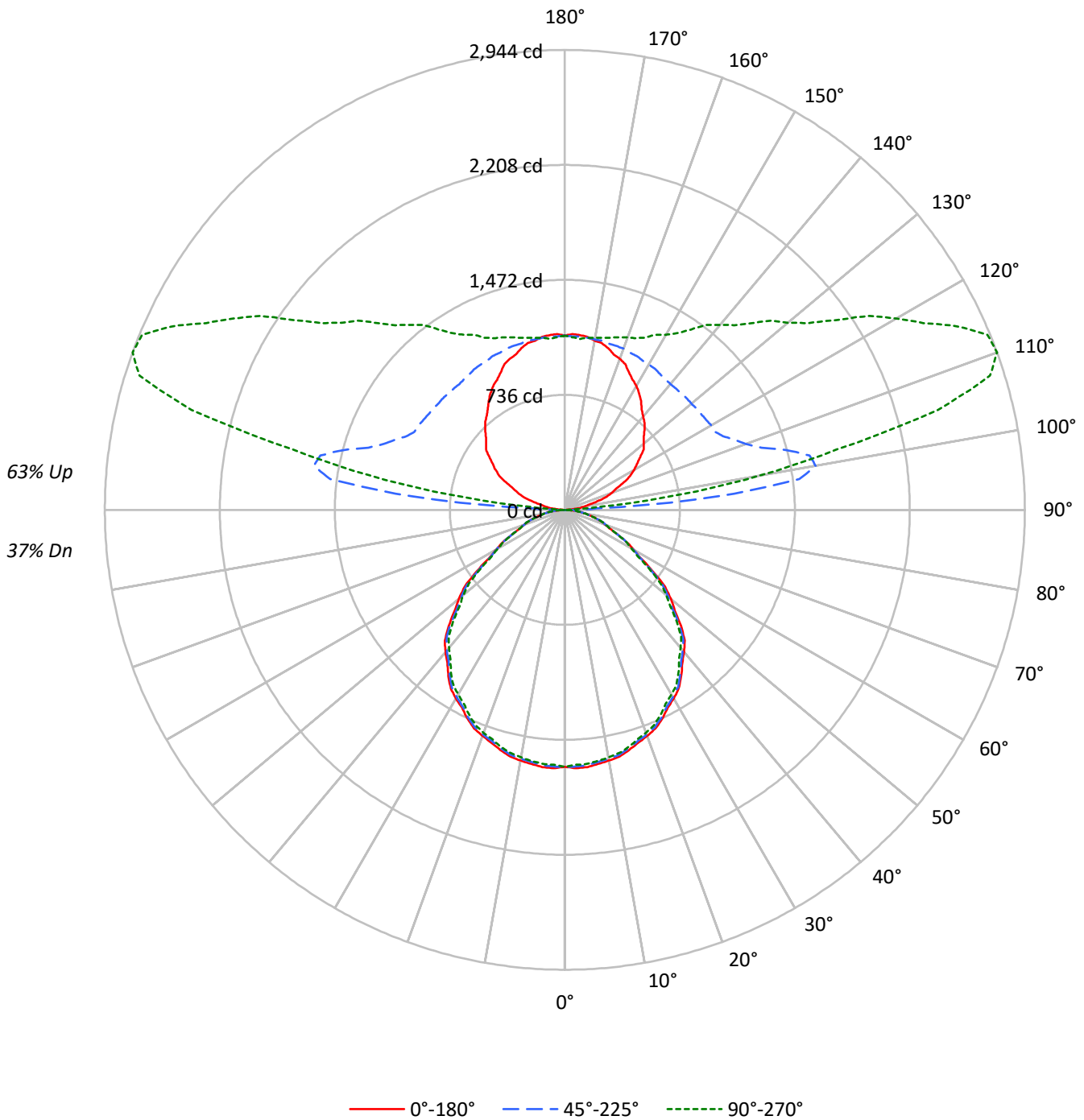
Lumens per Lamp: N/A
Luminaire Lumens: 11036.4 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	94	94	94	94	76	76	76	60	60	60	44	44	44	37				
1	95	91	87	84	86	83	80	77	67	65	63	53	51	50	40	39	38	32				
2	87	80	74	69	78	72	67	63	59	55	52	47	44	42	35	34	32	27				
3	79	70	63	58	72	64	58	53	52	48	44	41	38	36	31	29	28	23				
4	73	62	55	49	66	57	50	45	46	42	38	37	34	31	28	26	24	20				
5	67	55	48	42	60	51	44	39	42	36	33	33	30	27	25	23	21	17				
6	61	50	42	36	55	45	39	34	37	32	28	30	26	23	23	20	18	15				
7	57	45	37	32	51	41	34	29	34	29	25	27	23	21	21	18	16	14				
8	52	41	33	28	48	37	31	26	31	26	22	25	21	18	19	17	15	12				
9	49	37	30	25	44	34	27	23	28	23	20	23	19	17	18	15	13	11				
10	46	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15177	15177	15177
5°	15314	15195	15117
10°	15265	15159	15080
15°	15199	15103	15022
20°	15121	15024	14913
25°	15015	14915	14742
30°	14853	14748	14537
35°	14634	14506	14299
40°	14300	14147	13890
45°	13717	13477	13200
50°	12690	12386	12142
55°	11076	10825	10597
60°	9333	9256	9073
65°	8073	8104	8043
70°	7416	7453	7453
75°	7122	7122	7172
80°	6700	6774	6700
85°	5399	6002	6002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	1.4
10°-20°	445.1	4.0
20°-30°	671.3	6.1
30°-40°	799.9	7.2
40°-50°	788.6	7.1
50°-60°	602.7	5.5
60°-70°	373.0	3.4
70°-80°	211.9	1.9
80°-90°	64.4	0.6
90°-100°	507.9	4.6
100°-110°	1445.2	13.1
110°-120°	1384.7	12.5
120°-130°	1095.9	9.9
130°-140°	879.7	8.0
140°-150°	688.7	6.2
150°-160°	503.9	4.6
160°-170°	312.1	2.8
170°-180°	105.9	1.0
0°-30°	1271.9	11.5
0°-40°	2071.8	18.8
0°-60°	3463.1	31.4
0°-90°	4112.3	37.3
90°-120°	3337.9	30.2
90°-150°	6002.1	54.4
90°-180°	6924.0	62.7
0°-180°	11036.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1645	1645	1645	1645	1645	
5°	1654	1636	1641	1635	1632	157
15°	1591	1574	1581	1576	1573	449
25°	1475	1457	1465	1449	1448	679
35°	1299	1284	1288	1271	1270	811
45°	1051	1038	1033	1014	1012	805
55°	689	678	673	662	659	617
65°	370	367	371	368	368	375
75°	200	200	200	201	201	211
85°	51	54	57	57	57	59
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	

TEST NUMBER: P562120

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1645.0	1645.0	1645.0	1645.0	1645.0
2.5°	1655.2	1640.8	1645.0	1641.4	1633.7
5°	1653.5	1635.5	1640.7	1635.0	1632.2
7.5°	1640.7	1623.0	1628.3	1622.6	1620.9
10°	1629.4	1612.8	1618.1	1612.3	1609.6
12.5°	1616.9	1599.2	1605.6	1598.7	1596.0
15°	1591.2	1574.5	1581.2	1575.5	1572.7
17.5°	1562.8	1545.1	1551.8	1545.2	1541.6
20°	1540.1	1523.5	1530.2	1520.3	1518.9
22.5°	1515.2	1498.6	1505.3	1492.0	1491.7
25°	1475.0	1457.0	1465.1	1449.4	1448.1
27.5°	1427.1	1410.5	1417.2	1401.3	1399.6
30°	1394.2	1377.6	1384.3	1367.2	1364.5
32.5°	1356.8	1341.3	1346.9	1329.8	1328.2
35°	1299.3	1284.0	1287.9	1270.9	1269.5
37.5°	1233.8	1220.0	1222.2	1203.5	1202.1
40°	1187.3	1173.5	1174.6	1154.7	1153.3
42.5°	1136.3	1122.5	1121.3	1101.5	1100.1
45°	1051.3	1037.5	1032.9	1014.4	1011.7
47.5°	954.4	940.6	932.0	917.0	915.0
50°	884.1	870.3	862.9	850.0	845.9
52.5°	808.2	794.3	788.1	776.4	772.2
55°	688.6	677.5	673.0	661.6	658.8
57.5°	575.0	567.5	566.2	555.1	554.0
60°	505.8	501.7	501.6	491.7	491.7
62.5°	446.9	443.8	446.0	439.5	438.4
65°	369.8	367.0	371.2	368.4	368.4
67.5°	308.9	308.9	311.4	310.3	310.3
70°	274.9	274.9	276.3	276.3	276.3
72.5°	244.3	243.2	246.8	246.8	245.7
75°	199.8	199.8	199.8	201.2	201.2
77.5°	155.6	155.9	157.0	156.7	155.6
80°	126.1	127.5	127.5	126.1	126.1
82.5°	96.6	98.0	98.0	97.7	96.6
85°	51.0	53.8	56.7	56.7	56.7
87.5°	14.7	19.2	22.7	22.6	21.5
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)