

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: P561758

Luminaire Tested: **SQ4-PC3-150U-100D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561758
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 (6500K)
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 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

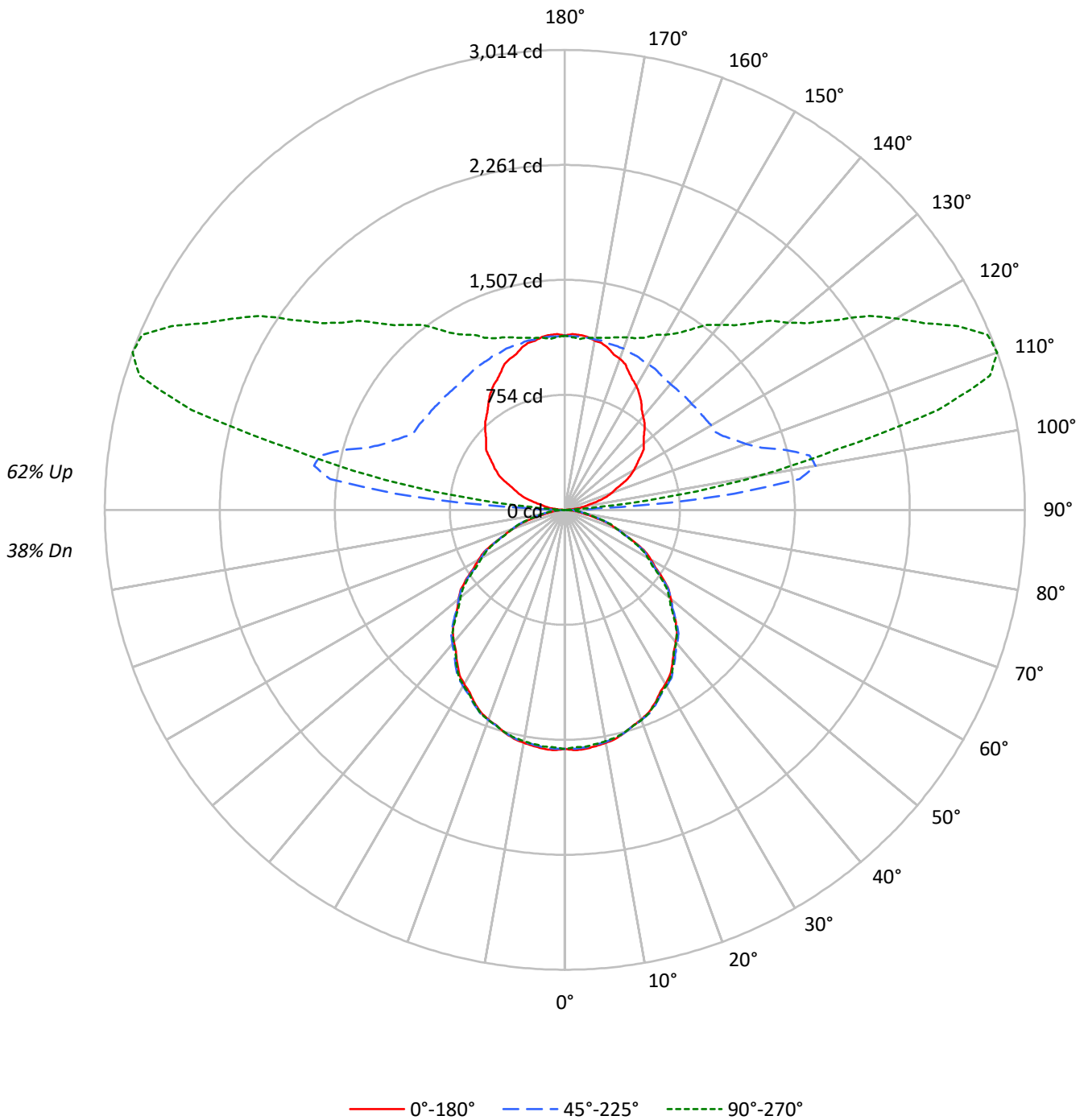
Lumens per Lamp: N/A
Luminaire Lumens: 11365.2 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 92.9
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	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°	14455	14455	14455
5°	14564	14470	14416
10°	14529	14460	14420
15°	14453	14453	14438
20°	14357	14400	14400
25°	14221	14325	14280
30°	14049	14218	14156
35°	13839	14052	13954
40°	13611	13802	13663
45°	13364	13458	13250
50°	13014	13014	12806
55°	12601	12437	12251
60°	11992	11752	11564
65°	11084	10863	10767
70°	9706	9784	9744
75°	7810	8637	8687
80°	5547	7322	7401
85°	3377	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	1.3
10°-20°	425.5	3.7
20°-30°	644.4	5.7
30°-40°	772.5	6.8
40°-50°	787.7	6.9
50°-60°	687.6	6.1
60°-70°	492.3	4.3
70°-80°	253.5	2.2
80°-90°	64.1	0.6
90°-100°	520.1	4.6
100°-110°	1479.7	13.0
110°-120°	1417.7	12.5
120°-130°	1122.1	9.9
130°-140°	900.6	7.9
140°-150°	705.1	6.2
150°-160°	515.9	4.5
160°-170°	319.6	2.8
170°-180°	108.4	1.0
0°-30°	1218.2	10.7
0°-40°	1990.7	17.5
0°-60°	3466.0	30.5
0°-90°	4275.9	37.6
90°-120°	3417.5	30.1
90°-150°	6145.3	54.1
90°-180°	7089.0	62.4
0°-180°	11365.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1567	1567	1567	1567	1567	
5°	1572	1557	1562	1558	1557	149
15°	1513	1500	1513	1513	1512	427
25°	1397	1387	1407	1403	1403	643
35°	1229	1226	1248	1239	1239	768
45°	1024	1021	1031	1018	1016	788
55°	783	773	773	762	762	698
65°	508	496	498	493	493	502
75°	219	229	242	244	244	237
85°	32	49	58	59	58	43
90°	0	0	0	0	0	4
95°	56	224	1007	348	215	64
105°	230	349	1508	2664	2532	243
115°	427	516	1143	2422	2844	421
125°	603	669	1091	1811	2165	540
135°	738	799	1078	1530	1729	569
145°	870	915	1087	1324	1443	544
155°	994	1017	1113	1197	1245	459
165°	1098	1102	1126	1150	1167	309
175°	1150	1144	1139	1132	1124	109
180°	1141	1141	1141	1141	1141	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1566.7	1566.7	1566.7	1566.7	1566.7
2.5°	1576.0	1562.4	1566.7	1563.1	1557.5
5°	1572.5	1556.9	1562.4	1558.0	1556.6
7.5°	1561.2	1545.6	1552.8	1549.9	1548.5
10°	1550.8	1535.2	1543.5	1540.6	1539.2
12.5°	1536.9	1522.4	1531.9	1529.0	1528.7
15°	1513.1	1500.3	1513.1	1513.0	1511.6
17.5°	1483.2	1471.6	1485.2	1486.1	1485.2
20°	1462.3	1449.5	1466.6	1465.2	1466.6
22.5°	1436.8	1426.3	1444.6	1440.9	1442.3
25°	1397.0	1387.1	1407.2	1402.8	1402.8
27.5°	1350.0	1342.9	1364.8	1360.2	1360.2
30°	1318.7	1311.6	1334.6	1328.8	1328.8
32.5°	1283.9	1279.0	1301.0	1294.0	1294.0
35°	1228.7	1225.9	1247.6	1238.9	1238.9
37.5°	1171.9	1169.3	1189.0	1178.5	1175.1
40°	1130.1	1128.7	1146.0	1134.4	1134.4
42.5°	1088.3	1086.9	1101.9	1088.0	1088.0
45°	1024.2	1021.4	1031.4	1018.3	1015.5
47.5°	954.3	951.4	957.7	943.5	942.1
50°	906.7	903.8	906.7	893.6	892.2
52.5°	857.9	852.8	853.3	840.2	840.0
55°	783.4	773.4	773.2	761.6	761.6
57.5°	704.5	691.4	692.6	682.7	681.2
60°	649.9	635.7	636.9	628.1	626.7
62.5°	596.5	580.1	583.5	573.6	573.3
65°	507.7	496.4	497.6	493.2	493.2
67.5°	422.4	411.9	419.5	416.1	415.8
70°	359.8	352.7	362.7	362.6	361.2
72.5°	301.7	301.5	313.9	313.9	314.8
75°	219.1	229.0	242.3	243.7	243.7
77.5°	146.2	163.8	178.4	179.0	178.7
80°	104.4	124.3	137.8	140.7	139.3
82.5°	70.8	91.8	103.0	105.9	104.4
85°	31.9	48.9	58.0	59.4	58.0
87.5°	9.3	19.5	23.2	23.2	20.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	17.4	92.0	213.5	62.1	46.9
95°	56.4	224.0	1006.8	348.5	214.8
97.5°	103.7	262.4	1550.5	1109.5	760.3
100°	136.7	285.2	1668.5	1690.1	1301.8
102.5°	173.1	309.8	1642.5	2163.3	1824.3
105°	230.0	348.8	1508.0	2663.6	2532.1
107.5°	287.7	394.2	1350.9	2804.6	2921.8
110°	327.6	427.3	1260.6	2750.7	3013.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	365.8	460.4	1199.9	2623.0	2998.1
115°	427.4	516.5	1143.4	2422.3	2844.5
117.5°	481.7	565.3	1110.0	2202.9	2650.1
120°	525.1	595.1	1106.6	2077.5	2506.0
122.5°	559.8	629.8	1097.9	1967.4	2365.4
125°	603.2	669.0	1091.4	1811.1	2165.4
127.5°	650.5	712.0	1087.9	1717.7	2009.6
130°	674.8	736.3	1082.7	1652.6	1907.2
132.5°	700.8	760.6	1082.7	1601.8	1836.0
135°	737.7	799.2	1078.4	1529.8	1729.3
137.5°	772.4	832.2	1077.9	1468.9	1641.2
140°	798.5	860.0	1076.2	1418.4	1583.9
142.5°	828.0	879.3	1081.4	1378.1	1526.6
145°	870.1	914.6	1087.0	1324.1	1442.9
147.5°	906.1	949.4	1096.6	1269.5	1372.1
150°	937.3	967.0	1100.1	1251.4	1323.5
152.5°	961.6	993.0	1103.5	1227.0	1294.0
155°	993.7	1017.1	1113.1	1196.6	1245.4
157.5°	1033.7	1047.7	1115.2	1182.9	1217.7
160°	1054.5	1065.1	1123.9	1172.3	1202.0
162.5°	1066.6	1078.9	1125.7	1163.5	1186.4
165°	1097.9	1102.1	1126.1	1150.3	1167.3
167.5°	1119.1	1115.3	1136.1	1147.1	1153.9
170°	1126.1	1124.0	1132.6	1135.0	1143.4
172.5°	1141.7	1134.5	1137.8	1131.4	1138.2
175°	1150.0	1143.6	1139.1	1132.4	1123.9
177.5°	1153.4	1143.2	1137.8	1130.9	1132.6
180°	1141.3	1141.3	1141.3	1141.3	1141.3

(END OF REPORT)