

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: P563107

Luminaire Tested: **SQ4-PC3-150U-075D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563107
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-075D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

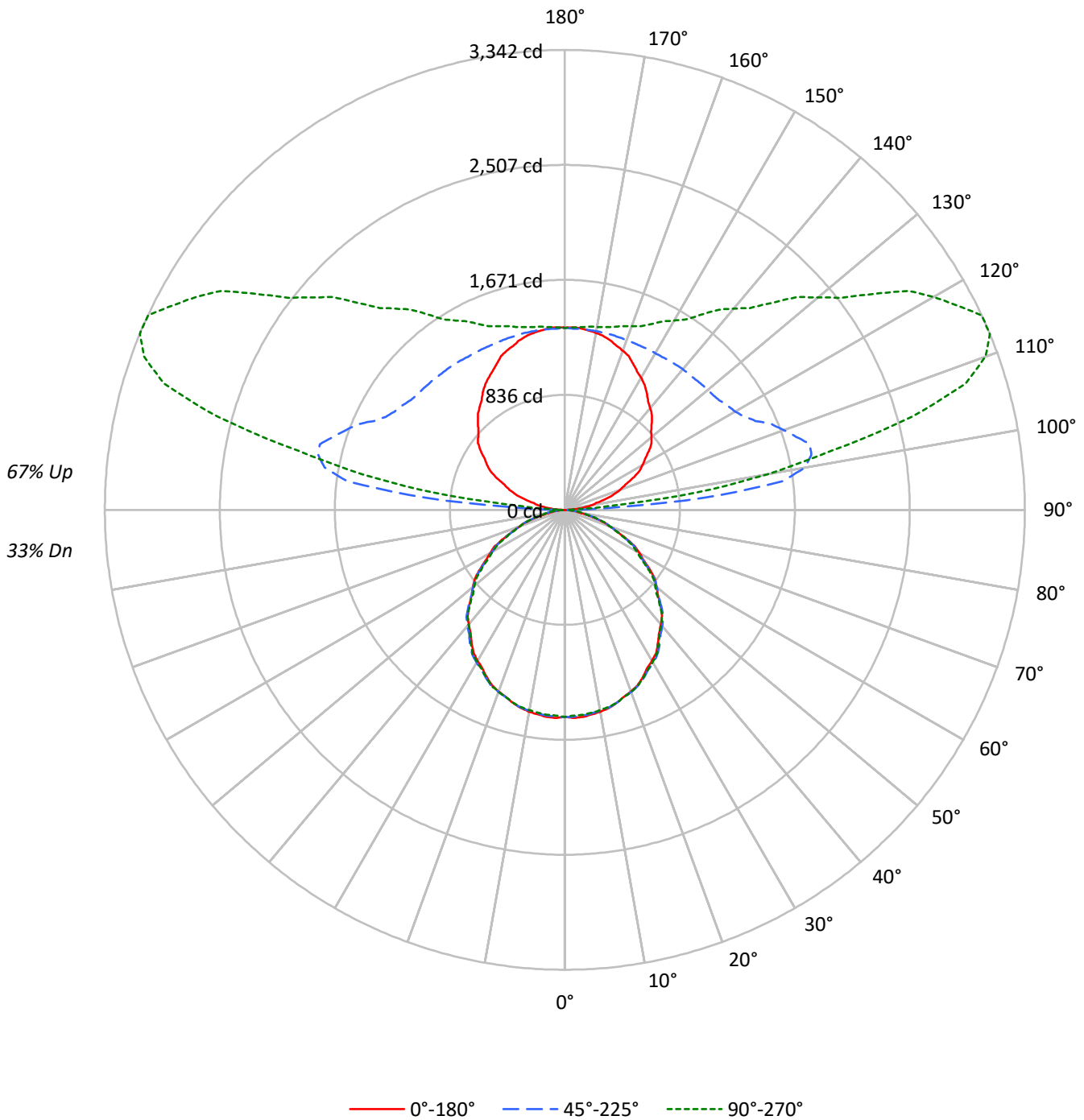
Lumens per Lamp: N/A
Luminaire Lumens: 12638.4 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 97.8
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	35	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	28	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	58	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	18	16	13
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	23	19	16	17	14	13	10
9	48	36	28	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9255	9255	9255
5°	9325	9265	9231
10°	9302	9259	9233
15°	9254	9254	9245
20°	9193	9220	9220
25°	9106	9172	9144
30°	8995	9104	9064
35°	8861	8997	8935
40°	8715	8838	8748
45°	8557	8617	8484
50°	8333	8333	8200
55°	8068	7963	7844
60°	7679	7524	7404
65°	7097	6955	6894
70°	6213	6264	6239
75°	5000	5530	5563
80°	3553	4690	4739
85°	2167	3931	3931



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	1.1
10°-20°	408.7	3.2
20°-30°	618.9	4.9
30°-40°	741.9	5.9
40°-50°	756.5	6.0
50°-60°	660.4	5.2
60°-70°	472.8	3.7
70°-80°	243.5	1.9
80°-90°	64.3	0.5
90°-100°	614.8	4.9
100°-110°	1662.2	13.2
110°-120°	1747.6	13.8
120°-130°	1419.5	11.2
130°-140°	1113.5	8.8
140°-150°	854.6	6.8
150°-160°	614.6	4.9
160°-170°	375.5	3.0
170°-180°	126.6	1.0
0°-30°	1169.9	9.3
0°-40°	1911.9	15.1
0°-60°	3328.8	26.3
0°-90°	4109.5	32.5
90°-120°	4024.6	31.8
90°-150°	7412.3	58.6
90°-180°	8529.0	67.5
0°-180°	12638.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1505	1505	1505	1505	1505	
5°	1510	1495	1501	1496	1495	143
15°	1453	1441	1453	1453	1452	410
25°	1342	1332	1352	1347	1347	617
35°	1180	1177	1198	1190	1190	738
45°	984	981	991	978	975	757
55°	752	743	743	732	732	671
65°	488	477	478	474	474	482
75°	210	220	233	234	234	227
85°	31	47	56	57	56	42
90°	3	8	18	20	18	8
95°	95	335	1022	529	315	100
105°	309	478	1844	2720	2609	325
115°	544	665	1529	2960	3342	537
125°	745	853	1378	2326	2733	664
135°	893	999	1341	1878	2126	690
145°	1038	1116	1323	1608	1730	649
155°	1172	1218	1312	1442	1490	541
165°	1276	1288	1317	1369	1376	359
175°	1324	1323	1319	1336	1333	126
180°	1323	1323	1323	1323	1323	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1504.7	1504.7	1504.7	1504.7	1504.7
2.5°	1513.7	1500.6	1504.7	1501.3	1495.8
5°	1510.3	1495.3	1500.6	1496.3	1495.0
7.5°	1499.4	1484.5	1491.4	1488.5	1487.2
10°	1489.4	1474.4	1482.4	1479.6	1478.3
12.5°	1476.0	1462.1	1471.3	1468.5	1468.2
15°	1453.2	1440.9	1453.2	1453.2	1451.8
17.5°	1424.5	1413.3	1426.4	1427.3	1426.4
20°	1404.4	1392.2	1408.6	1407.2	1408.6
22.5°	1379.9	1369.8	1387.4	1383.8	1385.2
25°	1341.7	1332.2	1351.5	1347.3	1347.3
27.5°	1296.6	1289.8	1310.8	1306.3	1306.3
30°	1266.5	1259.7	1281.8	1276.2	1276.2
32.5°	1233.0	1228.4	1249.5	1242.8	1242.8
35°	1180.1	1177.4	1198.2	1189.9	1189.9
37.5°	1125.5	1123.0	1141.9	1131.8	1128.6
40°	1085.4	1084.0	1100.7	1089.5	1089.5
42.5°	1045.2	1043.9	1058.3	1045.0	1045.0
45°	983.7	980.9	990.6	978.0	975.3
47.5°	916.5	913.8	919.8	906.2	904.8
50°	870.8	868.1	870.8	858.2	856.9
52.5°	824.0	819.1	819.5	807.0	806.7
55°	752.4	742.8	742.6	731.5	731.5
57.5°	676.6	664.0	665.1	655.6	654.3
60°	624.2	610.6	611.6	603.3	601.9
62.5°	572.9	557.1	560.4	550.9	550.6
65°	487.6	476.7	477.9	473.7	473.7
67.5°	405.7	395.6	402.9	399.6	399.3
70°	345.5	338.7	348.3	348.3	346.9
72.5°	289.8	289.5	301.5	301.5	302.3
75°	210.4	219.9	232.7	234.1	234.1
77.5°	140.4	157.3	171.4	171.9	171.7
80°	100.3	119.4	132.4	135.1	133.8
82.5°	68.0	88.2	98.9	101.7	100.3
85°	30.7	47.0	55.7	57.1	55.7
87.5°	9.5	20.4	26.0	26.2	23.8
90°	2.8	8.4	18.5	19.9	18.5
92.5°	40.4	147.4	290.8	126.2	91.4
95°	95.4	334.9	1022.4	529.1	314.7
97.5°	153.2	384.1	1593.7	1318.9	968.6
100°	196.5	404.0	1771.4	1847.4	1493.7
102.5°	236.4	431.6	1834.1	2248.1	1983.6
105°	309.0	477.5	1844.0	2720.1	2608.7
107.5°	376.2	529.9	1763.4	3014.5	3051.5
110°	428.6	567.8	1691.7	3093.6	3250.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	475.3	605.6	1625.6	3077.8	3342.0
115°	544.0	665.1	1529.3	2960.5	3342.0
117.5°	611.2	724.8	1465.8	2781.4	3213.9
120°	652.2	763.6	1428.2	2652.9	3094.3
122.5°	690.9	800.1	1405.4	2515.1	2959.8
125°	744.7	853.3	1378.4	2326.0	2732.6
127.5°	794.3	900.9	1362.4	2171.7	2529.2
130°	821.6	931.6	1355.6	2076.4	2399.4
132.5°	850.1	959.0	1348.8	1990.3	2287.7
135°	892.8	998.6	1341.4	1878.1	2126.0
137.5°	935.8	1035.8	1335.1	1787.1	1989.0
140°	965.4	1058.7	1332.8	1728.5	1908.1
142.5°	993.9	1081.6	1328.3	1675.6	1832.9
145°	1038.1	1116.0	1322.9	1607.6	1730.1
147.5°	1078.2	1147.3	1316.6	1546.0	1640.1
150°	1107.8	1169.1	1314.3	1512.5	1587.7
152.5°	1135.2	1188.6	1313.2	1481.5	1543.3
155°	1171.9	1217.9	1311.5	1442.1	1489.5
157.5°	1210.1	1242.1	1311.7	1414.7	1445.9
160°	1231.7	1258.2	1312.9	1397.4	1419.7
162.5°	1248.8	1270.8	1314.0	1383.6	1400.3
165°	1275.9	1288.4	1317.2	1368.6	1375.5
167.5°	1294.4	1303.0	1317.4	1355.7	1359.0
170°	1305.8	1309.9	1318.6	1349.9	1349.9
172.5°	1314.9	1315.7	1318.6	1343.1	1341.9
175°	1324.3	1322.9	1318.6	1335.6	1332.8
177.5°	1327.4	1324.1	1318.3	1329.6	1326.3
180°	1322.9	1322.9	1322.9	1322.9	1322.9

(END OF REPORT)