

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: P563011

Luminaire Tested: **SQ4-PC3-125U-075D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563011
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PC3-125U-075D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

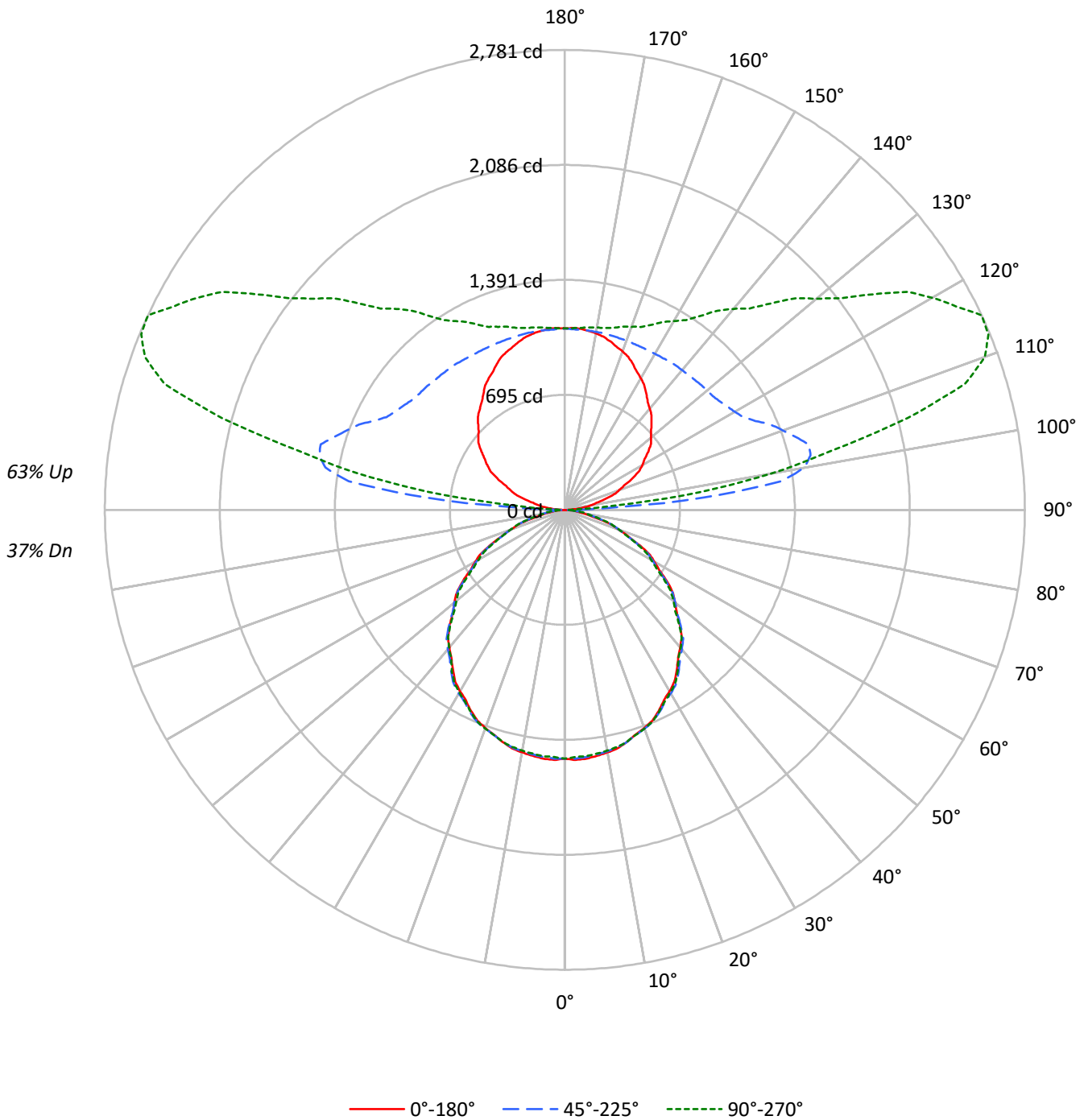
Lumens per Lamp: N/A
Luminaire Lumens: 11187.5 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 87.9
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	83	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	33	31	26
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	59	50	43	38	41	36	32	32	29	26	24	22	20	16
6	61	49	41	35	55	45	38	33	37	31	27	29	25	22	22	19	17	14
7	56	44	36	31	51	40	33	28	33	28	24	26	23	20	20	17	15	13
8	52	40	32	27	47	36	30	25	30	25	21	24	20	18	18	16	14	11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9

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	1.3
10°-20°	408.7	3.7
20°-30°	618.9	5.5
30°-40°	741.9	6.6
40°-50°	756.5	6.8
50°-60°	660.4	5.9
60°-70°	472.8	4.2
70°-80°	243.5	2.2
80°-90°	64.2	0.6
90°-100°	512.9	4.6
100°-110°	1381.7	12.4
110°-120°	1450.0	13.0
120°-130°	1176.7	10.5
130°-140°	922.8	8.2
140°-150°	708.5	6.3
150°-160°	509.4	4.6
160°-170°	311.2	2.8
170°-180°	105.0	0.9
0°-30°	1169.9	10.5
0°-40°	1911.9	17.1
0°-60°	3328.8	29.8
0°-90°	4109.3	36.7
90°-120°	3344.6	29.9
90°-150°	6152.6	55.0
90°-180°	7078.0	63.3
0°-180°	11187.5	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	17	18	18	7
95°	78	279	841	430	298	82
105°	256	398	1528	2286	2145	269
115°	451	552	1272	2459	2781	444
125°	616	708	1142	1931	2272	550
135°	742	828	1110	1558	1764	572
145°	858	924	1096	1332	1430	538
155°	974	1009	1087	1195	1233	448
165°	1056	1068	1091	1134	1140	298
175°	1098	1096	1092	1108	1105	104
180°	1096	1096	1096	1096	1096	



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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	25.6	25.9	23.7
90°	2.8	8.3	16.8	18.2	18.2
92.5°	34.1	120.4	238.0	114.6	79.6
95°	78.2	279.0	840.8	430.0	297.5
97.5°	124.9	319.3	1318.8	1101.7	830.8
100°	160.6	335.4	1470.8	1538.8	1276.6
102.5°	195.3	358.1	1521.1	1866.2	1651.0
105°	255.6	397.6	1528.0	2286.1	2145.4
107.5°	312.6	439.3	1463.0	2501.9	2538.2
110°	350.6	470.8	1403.7	2568.8	2701.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	390.8	502.3	1346.7	2554.0	2771.7
115°	451.2	552.2	1272.4	2458.6	2780.9
117.5°	506.2	601.0	1214.9	2306.4	2665.3
120°	541.9	633.4	1185.8	2197.1	2565.8
122.5°	573.2	663.6	1164.6	2085.3	2453.0
125°	616.0	707.5	1142.5	1931.1	2272.5
127.5°	657.0	747.2	1128.6	1795.1	2099.9
130°	681.6	771.8	1123.0	1717.1	1984.8
132.5°	706.2	795.2	1117.4	1648.4	1894.3
135°	741.7	827.7	1110.4	1557.9	1764.1
137.5°	775.5	858.0	1106.8	1481.1	1650.4
140°	798.9	878.2	1103.4	1433.8	1586.7
142.5°	823.5	897.3	1101.2	1389.6	1518.5
145°	857.6	924.5	1096.5	1331.9	1430.3
147.5°	894.5	952.7	1091.7	1283.4	1360.7
150°	919.1	969.6	1089.5	1252.9	1317.1
152.5°	941.4	985.4	1088.3	1228.1	1280.3
155°	973.5	1009.0	1086.7	1195.1	1233.3
157.5°	1001.8	1029.3	1087.0	1171.9	1197.6
160°	1019.6	1042.8	1088.1	1158.3	1177.5
162.5°	1035.3	1054.1	1089.2	1147.0	1160.7
165°	1055.9	1068.2	1090.9	1134.3	1139.8
167.5°	1072.7	1079.8	1092.3	1124.4	1126.6
170°	1083.9	1086.6	1092.3	1118.8	1118.8
172.5°	1090.6	1091.1	1093.4	1113.2	1113.2
175°	1097.8	1096.5	1092.3	1107.6	1104.8
177.5°	1100.9	1098.7	1093.1	1102.0	1099.8
180°	1096.5	1096.5	1096.5	1096.5	1096.5

(END OF REPORT)