

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: P563815

Luminaire Tested: **SQ4-PP3-150U-100D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563815
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-150U-100D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

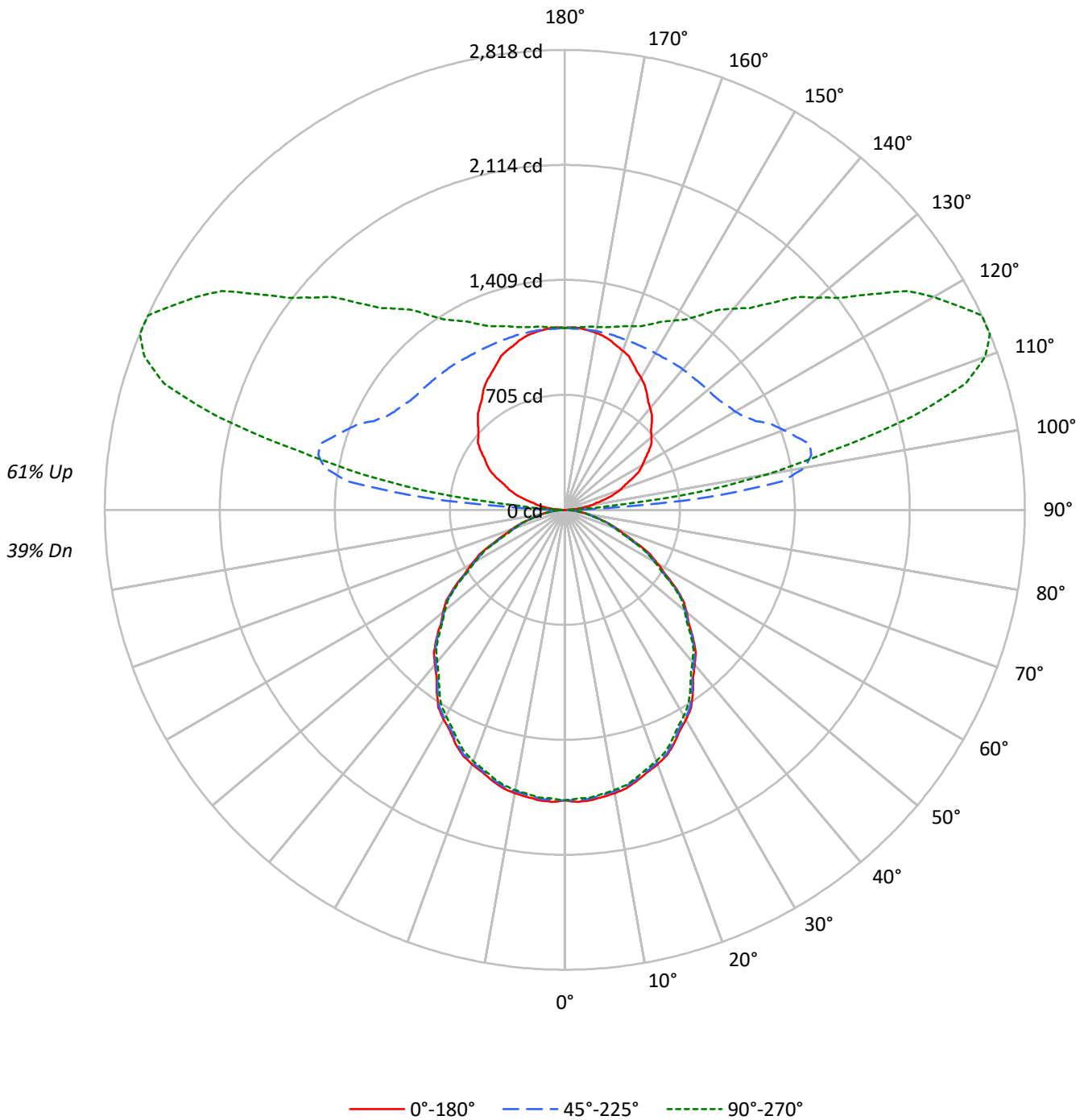
Lumens per Lamp: N/A
Luminaire Lumens: 11749.4 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 112.7
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	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	63	60	56	53	47	45	43	36	34	33	28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	73	62	54	49	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	67	55	47	42	60	51	44	39	42	37	33	33	30	27	26	23	21	18
6	61	50	42	36	56	45	38	33	38	32	28	30	26	24	23	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	27	24	21	21	19	17	14
8	52	40	33	28	48	37	30	26	31	26	22	25	21	18	20	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	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10950	10950	10950
5°	11031	10964	10925
10°	11012	10934	10886
15°	10939	10880	10820
20°	10867	10805	10724
25°	10738	10664	10558
30°	10539	10484	10351
35°	10264	10193	10064
40°	9935	9872	9760
45°	9664	9596	9501
50°	9316	9257	9167
55°	8835	8717	8651
60°	8043	7813	7773
65°	7085	6789	6768
70°	6118	5864	5864
75°	5266	5190	5117
80°	4644	4697	4587
85°	3634	3966	3966



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.3	1.4
10°-20°	480.7	4.1
20°-30°	720.0	6.1
30°-40°	844.5	7.2
40°-50°	847.2	7.2
50°-60°	722.7	6.2
60°-70°	471.3	4.0
70°-80°	236.5	2.0
80°-90°	67.8	0.6
90°-100°	518.3	4.4
100°-110°	1401.4	11.9
110°-120°	1473.3	12.5
120°-130°	1196.7	10.2
130°-140°	938.7	8.0
140°-150°	720.5	6.1
150°-160°	518.2	4.4
160°-170°	316.5	2.7
170°-180°	106.7	0.9
0°-30°	1369.1	11.7
0°-40°	2213.6	18.8
0°-60°	3783.5	32.2
0°-90°	4559.0	38.8
90°-120°	3393.0	28.9
90°-150°	6249.0	53.2
90°-180°	7190.0	61.2
0°-180°	11749.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1780	1780	1780	1780	1780	
5°	1787	1770	1776	1769	1769	170
15°	1718	1701	1709	1702	1699	485
25°	1582	1564	1571	1557	1556	728
35°	1367	1353	1358	1342	1340	854
45°	1111	1103	1103	1092	1092	855
55°	824	821	813	808	807	732
65°	487	478	466	464	465	486
75°	222	222	218	217	215	240
85°	52	56	56	56	56	61
90°	2	7	16	17	16	7
95°	80	282	862	446	265	84
105°	260	402	1555	2293	2199	274
115°	459	561	1289	2496	2818	453
125°	628	719	1162	1961	2304	560
135°	753	842	1131	1583	1792	582
145°	875	941	1115	1355	1459	547
155°	988	1027	1106	1216	1256	456
165°	1076	1086	1110	1154	1160	303
175°	1116	1115	1112	1126	1124	106
180°	1115	1115	1115	1115	1115	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1780.3	1780.3	1780.3	1780.3	1780.3
2.5°	1791.6	1776.9	1780.3	1777.7	1770.4
5°	1786.6	1769.8	1775.7	1769.4	1769.4
7.5°	1774.4	1756.1	1761.9	1755.7	1755.4
10°	1763.2	1744.9	1750.7	1744.4	1742.9
12.5°	1747.0	1728.6	1735.7	1728.2	1727.9
15°	1717.9	1701.1	1708.6	1702.3	1699.2
17.5°	1685.2	1666.9	1675.8	1667.0	1665.8
20°	1660.2	1641.9	1650.8	1638.4	1638.4
22.5°	1630.2	1611.9	1622.1	1605.9	1605.9
25°	1582.2	1563.9	1571.3	1557.2	1555.7
27.5°	1525.1	1507.1	1514.8	1498.9	1498.5
30°	1483.9	1467.1	1476.1	1458.9	1457.4
32.5°	1438.9	1423.4	1429.9	1412.7	1411.2
35°	1366.9	1353.1	1357.5	1341.9	1340.3
37.5°	1291.0	1277.0	1282.0	1268.5	1267.9
40°	1237.3	1228.2	1229.5	1218.6	1215.5
42.5°	1187.4	1177.0	1178.4	1167.4	1166.8
45°	1111.0	1103.3	1103.2	1092.2	1092.2
47.5°	1029.8	1024.0	1022.3	1013.3	1013.0
50°	973.6	969.1	967.4	959.6	958.0
52.5°	915.0	912.8	907.5	900.9	900.6
55°	823.9	820.8	812.9	808.2	806.7
57.5°	724.9	718.8	710.0	703.1	704.3
60°	653.8	647.7	635.1	631.9	631.9
62.5°	585.1	577.8	565.2	560.8	563.3
65°	486.8	477.7	466.5	463.5	465.0
67.5°	397.6	389.3	377.3	377.3	376.0
70°	340.2	335.6	326.1	326.1	326.1
72.5°	289.0	286.8	279.9	279.9	278.7
75°	221.6	221.6	218.4	216.9	215.3
77.5°	166.0	166.6	165.1	163.5	160.7
80°	131.1	134.1	132.6	131.0	129.5
82.5°	98.6	101.7	101.4	98.6	98.3
85°	51.5	56.1	56.2	56.2	56.2
87.5°	14.2	20.0	23.1	23.4	24.3
90°	2.4	7.1	15.6	16.8	15.6
92.5°	34.1	124.2	245.1	106.4	77.1
95°	80.4	282.3	861.9	446.1	265.3
97.5°	129.2	323.8	1343.6	1111.9	816.6
100°	165.7	340.6	1493.4	1557.4	1259.3
102.5°	199.3	363.8	1546.2	1895.3	1672.3
105°	260.5	402.5	1554.6	2293.2	2199.3
107.5°	317.2	446.8	1486.7	2541.4	2572.6
110°	361.3	478.7	1426.2	2608.0	2740.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	400.7	510.6	1370.5	2594.7	2817.5
115°	458.6	560.7	1289.3	2495.9	2817.5
117.5°	515.2	611.0	1235.8	2344.9	2709.5
120°	549.8	643.7	1204.1	2236.5	2608.6
122.5°	582.5	674.5	1184.9	2120.4	2495.3
125°	627.8	719.4	1162.1	1961.0	2303.7
127.5°	669.6	759.5	1148.6	1830.9	2132.3
130°	692.7	785.4	1142.9	1750.5	2022.8
132.5°	716.7	808.5	1137.1	1678.0	1928.7
135°	752.7	841.9	1130.8	1583.4	1792.3
137.5°	789.0	873.2	1125.6	1506.6	1676.8
140°	813.9	892.6	1123.6	1457.2	1608.6
142.5°	837.9	911.9	1119.8	1412.6	1545.3
145°	875.1	940.9	1115.2	1355.3	1458.6
147.5°	909.0	967.2	1110.0	1303.4	1382.7
150°	934.0	985.6	1108.0	1275.1	1338.5
152.5°	957.0	1002.1	1107.1	1249.0	1301.1
155°	988.0	1026.7	1105.6	1215.8	1255.7
157.5°	1020.2	1047.2	1105.9	1192.7	1219.0
160°	1038.4	1060.7	1106.8	1178.1	1196.9
162.5°	1052.8	1071.4	1107.8	1166.5	1180.5
165°	1075.6	1086.2	1110.4	1153.8	1159.7
167.5°	1091.2	1098.5	1110.7	1142.9	1145.7
170°	1100.8	1104.4	1111.6	1138.1	1138.1
172.5°	1108.5	1109.2	1111.6	1132.3	1131.3
175°	1116.4	1115.3	1111.6	1126.0	1123.6
177.5°	1119.1	1116.3	1111.4	1120.9	1118.1
180°	1115.2	1115.2	1115.2	1115.2	1115.2

(END OF REPORT)