

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: P563147

Luminaire Tested: **SQ4-PC3-150U-100D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563147
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-100D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

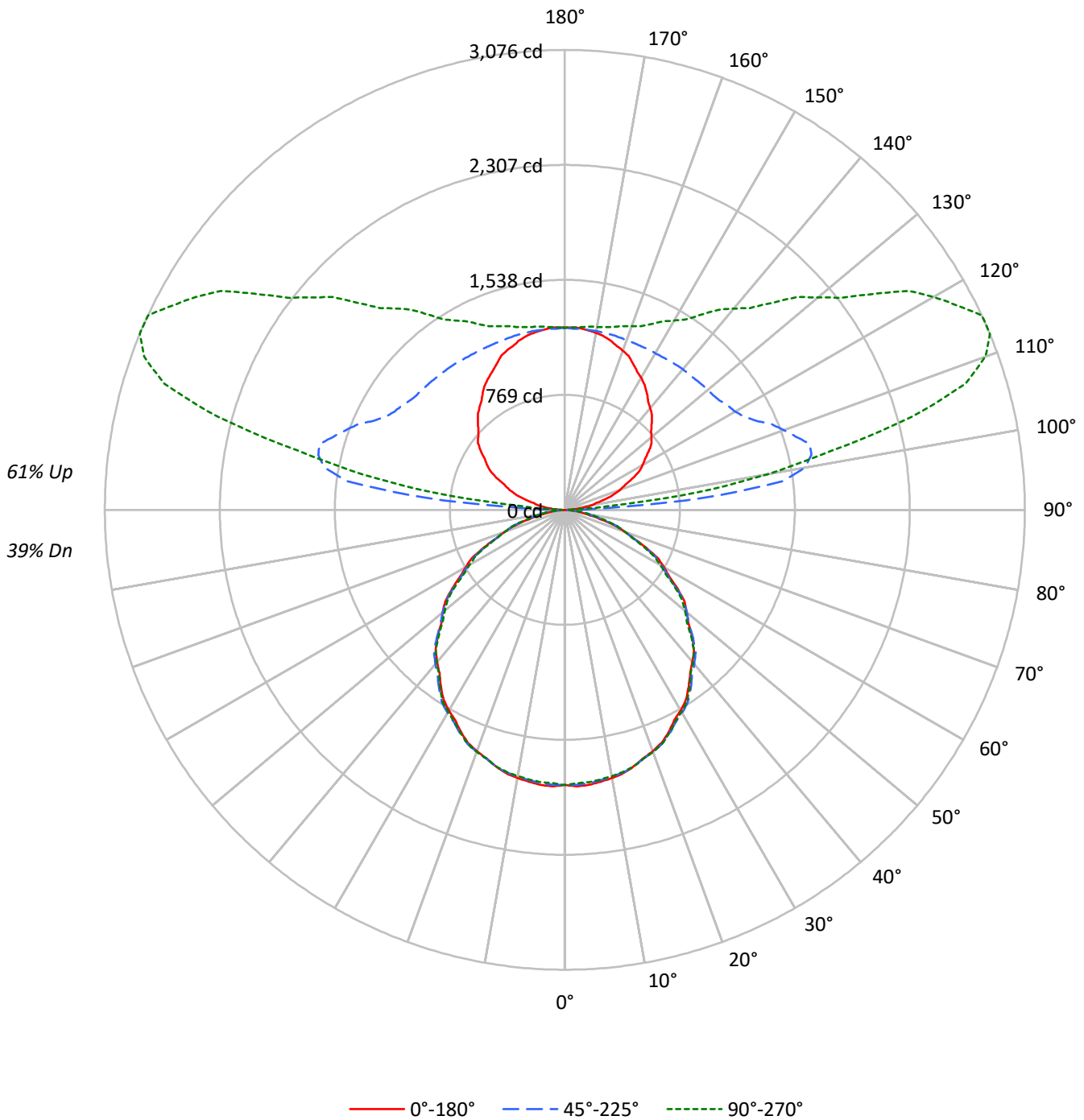
Lumens per Lamp: N/A
Luminaire Lumens: 12876.8 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	65	63	54	52	51	41	40	39	33
2	87	80	74	69	79	73	67	63	59	56	52	47	45	42	36	34	33	28
3	79	70	63	57	72	64	58	53	52	48	44	42	38	36	32	30	28	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	31	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	19	17	14	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11321	11321	11321
5°	11406	11332	11290
10°	11378	11325	11293
15°	11318	11318	11307
20°	11244	11277	11277
25°	11138	11218	11184
30°	11002	11135	11087
35°	10838	11005	10927
40°	10659	10810	10700
45°	10465	10540	10376
50°	10192	10192	10029
55°	9868	9740	9594
60°	9392	9203	9056
65°	8681	8507	8433
70°	7600	7661	7631
75°	6115	6763	6804
80°	4346	5735	5795
85°	2646	4813	4813



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.2	1.4
10°-20°	499.9	3.9
20°-30°	757.0	5.9
30°-40°	907.5	7.0
40°-50°	925.3	7.2
50°-60°	807.8	6.3
60°-70°	578.3	4.5
70°-80°	297.9	2.3
80°-90°	77.9	0.6
90°-100°	565.9	4.4
100°-110°	1530.2	11.9
110°-120°	1608.7	12.5
120°-130°	1306.7	10.1
130°-140°	1025.0	8.0
140°-150°	786.7	6.1
150°-160°	565.8	4.4
160°-170°	345.6	2.7
170°-180°	116.5	0.9
0°-30°	1431.0	11.1
0°-40°	2338.5	18.2
0°-60°	4071.6	31.6
0°-90°	5025.6	39.0
90°-120°	3704.8	28.8
90°-150°	6823.3	53.0
90°-180°	7851.0	61.0
0°-180°	12876.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1840	1840	1840	1840	1840	
5°	1847	1829	1835	1830	1829	175
15°	1777	1762	1777	1777	1776	501
25°	1641	1629	1653	1648	1648	755
35°	1443	1440	1466	1455	1455	903
45°	1203	1200	1212	1196	1193	926
55°	920	909	908	895	895	820
65°	596	583	584	579	579	590
75°	257	269	285	286	286	278
85°	38	58	68	70	68	51
90°	3	8	17	18	17	7
95°	88	308	941	487	290	92
105°	284	440	1698	2504	2401	300
115°	501	612	1408	2725	3076	494
125°	686	786	1269	2141	2515	611
135°	822	919	1235	1729	1957	635
145°	956	1027	1218	1480	1593	598
155°	1079	1121	1207	1328	1371	498
165°	1174	1186	1212	1260	1266	331
175°	1219	1218	1214	1230	1227	116
180°	1218	1218	1218	1218	1218	

TEST NUMBER: P563147

CATALOG NUMBER: SQ4-PC3-150U-100D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1840.5	1840.5	1840.5	1840.5	1840.5
2.5°	1851.4	1835.4	1840.5	1836.2	1829.6
5°	1847.3	1829.0	1835.4	1830.2	1828.6
7.5°	1834.0	1815.7	1824.1	1820.7	1819.0
10°	1821.7	1803.4	1813.2	1809.8	1808.1
12.5°	1805.4	1788.4	1799.6	1796.2	1795.8
15°	1777.4	1762.4	1777.4	1777.4	1775.7
17.5°	1742.3	1728.7	1744.7	1745.7	1744.7
20°	1717.8	1702.8	1722.9	1721.2	1722.9
22.5°	1687.8	1675.5	1697.0	1692.6	1694.3
25°	1641.1	1629.4	1653.0	1647.9	1647.9
27.5°	1585.9	1577.6	1603.3	1597.8	1597.8
30°	1549.1	1540.7	1567.8	1561.0	1561.0
32.5°	1508.2	1502.5	1528.3	1520.1	1520.1
35°	1443.4	1440.1	1465.6	1455.3	1455.3
37.5°	1376.6	1373.6	1396.7	1384.4	1380.4
40°	1327.5	1325.9	1346.3	1332.6	1332.6
42.5°	1278.5	1276.8	1294.5	1278.1	1278.1
45°	1203.1	1199.8	1211.7	1196.2	1192.9
47.5°	1121.0	1117.7	1125.1	1108.3	1106.7
50°	1065.1	1061.8	1065.1	1049.7	1048.1
52.5°	1007.8	1001.8	1002.4	987.0	986.7
55°	920.2	908.6	908.3	894.7	894.7
57.5°	827.5	812.2	813.6	801.9	800.3
60°	763.5	746.8	748.1	737.9	736.2
62.5°	700.7	681.4	685.4	673.8	673.5
65°	596.5	583.1	584.5	579.4	579.4
67.5°	496.2	483.9	492.8	488.7	488.4
70°	422.6	414.3	426.0	426.0	424.3
72.5°	354.5	354.1	368.8	368.8	369.8
75°	257.3	269.0	284.6	286.3	286.3
77.5°	171.8	192.4	209.6	210.3	210.0
80°	122.7	146.0	161.9	165.3	163.6
82.5°	83.2	107.8	121.0	124.4	122.7
85°	37.5	57.5	68.2	69.8	68.2
87.5°	11.4	24.5	30.7	30.9	27.9
90°	2.6	7.7	17.0	18.3	17.0
92.5°	37.2	135.7	267.7	116.2	84.2
95°	87.8	308.3	941.2	487.1	289.7
97.5°	141.0	353.5	1467.1	1214.1	891.6
100°	180.9	371.9	1630.7	1700.6	1375.0
102.5°	217.6	397.3	1688.3	2069.5	1826.0
105°	284.4	439.5	1697.5	2503.9	2401.4
107.5°	346.3	487.8	1623.3	2775.0	2809.1
110°	394.6	522.7	1557.2	2847.8	2992.6



TEST NUMBER: P563147

CATALOG NUMBER: SQ4-PC3-150U-100D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	437.5	557.5	1496.4	2833.2	3076.5
115°	500.7	612.2	1407.8	2725.3	3076.5
117.5°	562.6	667.2	1349.4	2560.4	2958.5
120°	600.4	702.9	1314.7	2442.1	2848.4
122.5°	636.0	736.5	1293.8	2315.3	2724.7
125°	685.6	785.5	1268.9	2141.2	2515.4
127.5°	731.2	829.3	1254.2	1999.1	2328.3
130°	756.3	857.6	1247.9	1911.4	2208.7
132.5°	782.6	882.8	1241.6	1832.2	2106.0
135°	821.9	919.3	1234.8	1728.9	1957.0
137.5°	861.5	953.5	1229.0	1645.1	1830.9
140°	888.7	974.6	1226.9	1591.2	1756.5
142.5°	914.9	995.7	1222.7	1542.4	1687.3
145°	955.6	1027.4	1217.7	1479.8	1592.6
147.5°	992.5	1056.1	1212.0	1423.2	1509.8
150°	1019.8	1076.2	1209.9	1392.3	1461.6
152.5°	1045.0	1094.2	1208.8	1363.8	1420.7
155°	1078.8	1121.1	1207.3	1327.5	1371.1
157.5°	1113.9	1143.4	1207.5	1302.3	1331.0
160°	1133.9	1158.2	1208.6	1286.4	1306.9
162.5°	1149.6	1169.8	1209.6	1273.7	1289.1
165°	1174.5	1186.0	1212.5	1259.8	1266.2
167.5°	1191.5	1199.5	1212.8	1248.0	1251.0
170°	1202.0	1205.9	1213.8	1242.7	1242.7
172.5°	1210.4	1211.2	1213.8	1236.3	1235.3
175°	1219.1	1217.8	1213.8	1229.5	1226.9
177.5°	1221.9	1218.9	1213.6	1224.0	1220.9
180°	1217.7	1217.7	1217.7	1217.7	1217.7

(END OF REPORT)