

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: P562916

Luminaire Tested: **SQ4-PC3-100U-075D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562916
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PC3-100U-075D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

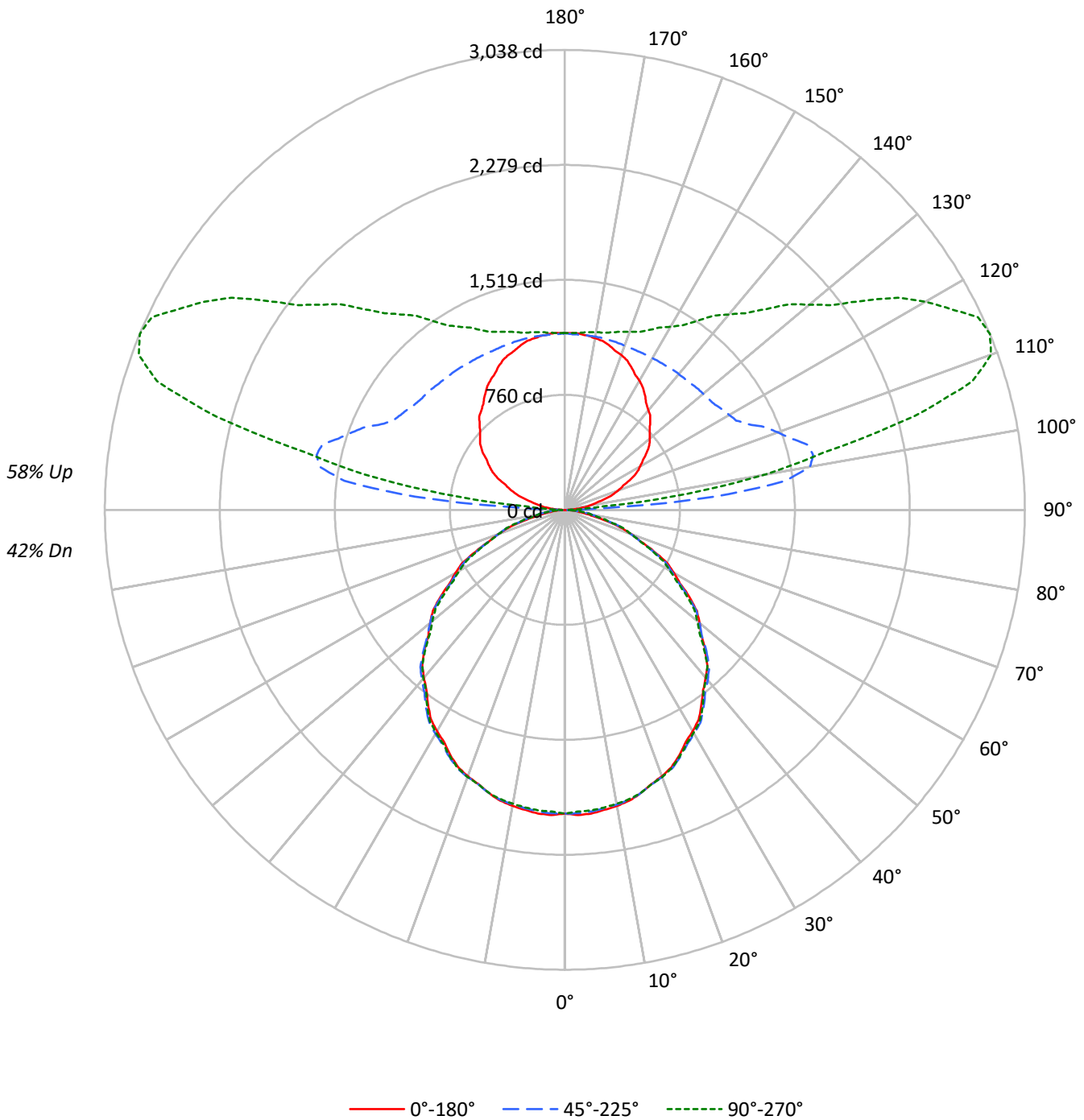
Lumens per Lamp: N/A
Luminaire Lumens: 13060.0 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 103.9
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	87	84	81	78	69	67	65	56	54	53	43	42	41	35
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	34	31	30	25
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	27	25	22
5	67	55	47	41	61	51	44	39	42	37	33	34	30	27	27	24	22	19
6	61	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	13
9	49	37	29	24	45	34	27	23	29	23	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	20	26	21	18	22	18	15	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9255	9255	9255
5°	9325	9265	9230
10°	9302	9259	9233
15°	9254	9254	9245
20°	9193	9220	9220
25°	9106	9172	9144
30°	8995	9104	9065
35°	8861	8997	8934
40°	8714	8838	8748
45°	8556	8617	8484
50°	8333	8333	8199
55°	8068	7964	7844
60°	7678	7524	7404
65°	7097	6955	6894
70°	6214	6264	6239
75°	5000	5529	5563
80°	3555	4689	4737
85°	2165	3933	3933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.9	1.5
10°-20°	544.9	4.2
20°-30°	825.2	6.3
30°-40°	989.3	7.6
40°-50°	1008.7	7.7
50°-60°	880.5	6.7
60°-70°	630.4	4.8
70°-80°	324.7	2.5
80°-90°	84.5	0.6
90°-100°	546.5	4.2
100°-110°	1508.6	11.6
110°-120°	1555.9	11.9
120°-130°	1250.3	9.6
130°-140°	982.6	7.5
140°-150°	753.6	5.8
150°-160°	541.6	4.1
160°-170°	331.2	2.5
170°-180°	111.7	0.9
0°-30°	1559.9	11.9
0°-40°	2549.2	19.5
0°-60°	4438.4	34.0
0°-90°	5478.0	41.9
90°-120°	3611.0	27.6
90°-150°	6597.5	50.5
90°-180°	7582.0	58.1
0°-180°	13060.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2006	2006	2006	2006	2006	
5°	2014	1994	2001	1995	1993	191
15°	1938	1921	1938	1938	1936	546
25°	1789	1776	1802	1796	1796	823
35°	1574	1570	1598	1586	1586	984
45°	1312	1308	1321	1304	1300	1010
55°	1003	990	990	975	975	894
65°	650	636	637	632	632	643
75°	280	293	310	312	312	303
85°	41	63	74	76	74	56
90°	4	7	15	17	19	7
95°	80	296	991	408	265	86
105°	269	415	1660	2534	2386	286
115°	482	582	1337	2646	3010	473
125°	661	752	1212	2051	2407	588
135°	795	881	1178	1661	1873	615
145°	922	986	1163	1414	1522	577
155°	1040	1075	1154	1269	1309	479
165°	1126	1140	1159	1204	1214	317
175°	1167	1169	1161	1178	1174	111
180°	1167	1167	1167	1167	1167	

TEST NUMBER: P562916

CATALOG NUMBER: SQ4-PC3-100U-075D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2006.3	2006.3	2006.3	2006.3	2006.3
2.5°	2018.2	2000.8	2006.3	2001.7	1994.4
5°	2013.7	1993.8	2000.7	1995.1	1993.3
7.5°	1999.3	1979.3	1988.5	1984.7	1982.9
10°	1985.9	1965.9	1976.6	1972.8	1971.0
12.5°	1968.0	1949.5	1961.7	1958.0	1957.6
15°	1937.6	1921.2	1937.6	1937.5	1935.7
17.5°	1899.3	1884.4	1901.9	1903.0	1901.9
20°	1872.6	1856.2	1878.1	1876.3	1878.1
22.5°	1839.9	1826.4	1849.9	1845.1	1846.9
25°	1789.0	1776.2	1802.0	1796.4	1796.4
27.5°	1728.8	1719.7	1747.7	1741.8	1741.8
30°	1688.6	1679.6	1709.1	1701.7	1701.7
32.5°	1644.1	1637.9	1666.0	1657.1	1657.1
35°	1573.5	1569.8	1597.6	1586.5	1586.5
37.5°	1500.6	1497.4	1522.6	1509.1	1504.7
40°	1447.1	1445.3	1467.6	1452.7	1452.7
42.5°	1393.6	1391.8	1411.1	1393.3	1393.3
45°	1311.5	1307.9	1320.8	1304.0	1300.4
47.5°	1222.0	1218.4	1226.5	1208.2	1206.4
50°	1161.1	1157.4	1161.1	1144.3	1142.5
52.5°	1098.6	1092.1	1092.7	1076.0	1075.6
55°	1003.2	990.4	990.2	975.3	975.3
57.5°	902.1	885.4	886.9	874.2	872.4
60°	832.2	814.1	815.5	804.3	802.5
62.5°	763.9	742.8	747.2	734.5	734.2
65°	650.2	635.7	637.2	631.6	631.6
67.5°	541.0	527.5	537.2	532.8	532.4
70°	460.7	451.6	464.4	464.4	462.6
72.5°	386.4	386.0	402.0	402.0	403.1
75°	280.5	293.2	310.2	312.1	312.1
77.5°	187.3	209.8	228.5	229.2	228.9
80°	133.8	159.2	176.5	180.2	178.3
82.5°	90.7	117.5	131.9	135.6	133.8
85°	40.9	62.7	74.3	76.1	74.3
87.5°	12.6	26.4	32.7	33.0	30.5
90°	3.7	7.4	14.9	16.8	18.7
92.5°	33.6	139.5	249.4	91.0	70.9
95°	80.3	295.7	991.4	407.5	265.1
97.5°	132.9	331.2	1468.6	1130.7	818.9
100°	171.8	352.5	1644.9	1656.5	1346.1
102.5°	209.1	376.7	1679.2	2046.7	1752.4
105°	268.9	414.9	1659.8	2534.0	2386.1
107.5°	332.3	462.3	1567.2	2768.9	2823.0
110°	377.1	494.0	1495.5	2819.5	2994.7



TEST NUMBER: P562916

CATALOG NUMBER: SQ4-PC3-100U-075D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	417.5	529.9	1428.3	2779.6	3038.1
115°	481.7	582.1	1336.8	2646.4	3009.7
117.5°	537.7	637.8	1276.7	2459.0	2872.3
120°	575.1	673.6	1252.8	2332.1	2748.3
122.5°	610.9	705.1	1233.4	2213.6	2607.9
125°	660.9	752.2	1211.7	2050.6	2406.6
127.5°	703.5	794.8	1199.0	1912.9	2219.9
130°	731.9	823.2	1193.0	1828.6	2107.9
132.5°	758.8	845.7	1187.1	1757.8	2010.8
135°	795.4	881.2	1178.1	1660.9	1872.7
137.5°	836.4	914.6	1173.6	1579.5	1760.3
140°	858.8	935.5	1170.6	1525.3	1684.1
142.5°	884.2	955.1	1167.7	1477.0	1616.9
145°	922.3	986.2	1163.2	1413.9	1521.6
147.5°	958.9	1014.8	1159.1	1360.7	1444.3
150°	985.8	1031.4	1157.6	1329.0	1396.6
152.5°	1006.7	1049.4	1156.1	1301.9	1357.7
155°	1039.9	1074.6	1153.8	1268.6	1308.8
157.5°	1070.6	1097.2	1154.2	1244.5	1271.8
160°	1088.5	1112.2	1155.7	1230.8	1250.9
162.5°	1103.4	1124.2	1157.2	1218.8	1234.5
165°	1125.8	1140.4	1159.4	1204.5	1213.6
167.5°	1143.0	1151.8	1161.3	1195.7	1198.6
170°	1152.0	1159.3	1161.3	1191.2	1191.2
172.5°	1159.4	1163.8	1161.3	1185.2	1183.7
175°	1166.9	1168.7	1161.3	1178.0	1174.4
177.5°	1169.9	1168.4	1160.9	1171.3	1168.4
180°	1166.9	1166.9	1166.9	1166.9	1166.9

(END OF REPORT)