

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: P564263

Luminaire Tested: **SQ4-PR1-100U-075D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564263
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-100U-075D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

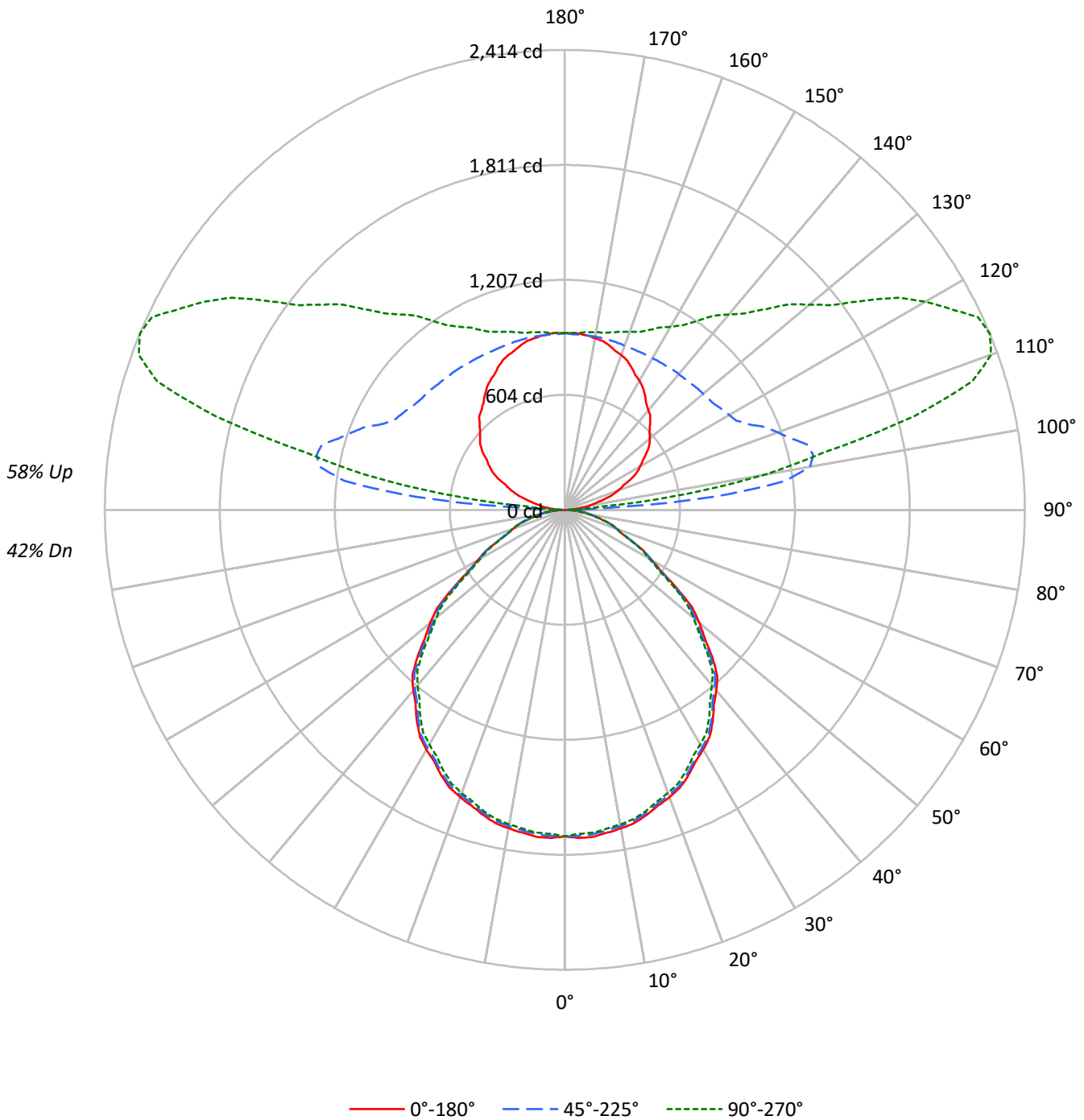
Lumens per Lamp: N/A
Luminaire Lumens: 10310.6 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 78
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



TEST NUMBER: P564263
CATALOG NUMBER: SQ4-PR1-100U-075D-835-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P564263

CATALOG NUMBER: SQ4-PR1-100U-075D-835-1D-UNV-STD-W-6

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	48	48	48	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	81	75	70	80	74	69	64	61	57	54	49	47	44	38	37	35	30
3	80	71	64	58	73	65	59	54	54	49	46	44	40	38	34	32	30	26
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	31	28	26	22
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	19
6	62	50	42	37	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	34	28	48	38	31	27	32	27	23	26	22	20	21	18	16	14
9	49	38	30	25	45	35	28	24	29	24	21	24	20	18	19	17	15	12
10	46	34	27	23	42	32	25	21	27	22	19	22	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10541	10541	10541
5°	10636	10554	10499
10°	10602	10528	10473
15°	10555	10490	10434
20°	10502	10435	10358
25°	10428	10358	10238
30°	10316	10242	10096
35°	10164	10075	9931
40°	9932	9825	9647
45°	9528	9361	9167
50°	8814	8602	8432
55°	7693	7518	7361
60°	6483	6428	6301
65°	5608	5628	5586
70°	5151	5176	5176
75°	4945	4945	4981
80°	4654	4704	4654
85°	3747	4164	4164



TEST NUMBER: P564263

CATALOG NUMBER: SQ4-PR1-100U-075D-835-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.1	1.6
10°-20°	463.7	4.5
20°-30°	699.4	6.8
30°-40°	833.3	8.1
40°-50°	821.6	8.0
50°-60°	627.9	6.1
60°-70°	388.6	3.8
70°-80°	220.7	2.1
80°-90°	69.0	0.7
90°-100°	434.2	4.2
100°-110°	1198.7	11.6
110°-120°	1236.3	12.0
120°-130°	993.5	9.6
130°-140°	780.8	7.6
140°-150°	598.8	5.8
150°-160°	430.4	4.2
160°-170°	263.2	2.6
170°-180°	88.7	0.9
0°-30°	1325.1	12.9
0°-40°	2158.4	20.9
0°-60°	3607.8	35.0
0°-90°	4286.1	41.6
90°-120°	2869.2	27.8
90°-150°	5242.2	50.8
90°-180°	6024.0	58.4
0°-180°	10310.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1714	1714	1714	1714	1714	
5°	1723	1704	1709	1703	1700	163
15°	1658	1640	1647	1641	1638	468
25°	1537	1518	1526	1510	1509	707
35°	1354	1338	1342	1324	1323	845
45°	1095	1081	1076	1057	1054	839
55°	717	706	701	689	686	643
65°	385	382	387	384	384	390
75°	208	208	208	210	210	220
85°	53	56	59	59	59	62
90°	3	6	12	13	15	7
95°	64	235	788	324	211	68
105°	214	330	1319	2013	1896	227
115°	383	462	1062	2103	2391	376
125°	525	598	963	1629	1912	467
135°	632	700	936	1320	1488	489
145°	733	784	924	1124	1209	459
155°	826	854	917	1008	1040	381
165°	895	906	921	957	964	252
175°	927	929	923	936	933	88
180°	927	927	927	927	927	



TEST NUMBER: P564263

CATALOG NUMBER: SQ4-PR1-100U-075D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1713.7	1713.7	1713.7	1713.7	1713.7
2.5°	1724.4	1709.4	1713.7	1710.0	1701.9
5°	1722.6	1703.8	1709.3	1703.3	1700.5
7.5°	1709.3	1690.8	1696.3	1690.4	1688.6
10°	1697.5	1680.2	1685.7	1679.7	1676.8
12.5°	1684.5	1666.0	1672.7	1665.6	1662.7
15°	1657.6	1640.3	1647.3	1641.3	1638.5
17.5°	1628.1	1609.7	1616.6	1609.7	1606.0
20°	1604.5	1587.2	1594.2	1583.8	1582.4
22.5°	1578.5	1561.2	1568.2	1554.3	1554.0
25°	1536.6	1517.8	1526.3	1510.0	1508.6
27.5°	1486.7	1469.4	1476.4	1459.8	1458.1
30°	1452.5	1435.2	1442.1	1424.4	1421.5
32.5°	1413.5	1397.3	1403.2	1385.4	1383.7
35°	1353.6	1337.7	1341.8	1324.0	1322.6
37.5°	1285.4	1270.9	1273.3	1253.8	1252.3
40°	1237.0	1222.5	1223.7	1203.0	1201.5
42.5°	1183.8	1169.4	1168.2	1147.5	1146.0
45°	1095.3	1080.8	1076.1	1056.8	1053.9
47.5°	994.3	979.9	971.0	955.3	953.3
50°	921.1	906.6	898.9	885.6	881.2
52.5°	842.0	827.5	821.0	808.8	804.5
55°	717.4	705.8	701.1	689.3	686.4
57.5°	599.0	591.2	589.8	578.3	577.2
60°	527.0	522.6	522.5	512.2	512.2
62.5°	465.6	462.4	464.7	457.9	456.7
65°	385.3	382.4	386.7	383.8	383.8
67.5°	321.8	321.8	324.4	323.3	323.3
70°	286.4	286.4	287.8	287.8	287.8
72.5°	254.5	253.3	257.1	257.1	256.0
75°	208.1	208.1	208.1	209.6	209.6
77.5°	162.1	162.4	163.6	163.2	162.1
80°	131.4	132.8	132.8	131.4	131.4
82.5°	100.7	102.1	102.1	101.8	100.7
85°	53.1	56.0	59.0	59.0	59.0
87.5°	15.9	21.1	26.0	26.3	25.4
90°	3.0	5.9	11.9	13.4	14.8
92.5°	26.7	110.8	198.2	72.3	56.4
95°	63.8	235.0	787.8	323.8	210.7
97.5°	105.6	263.2	1166.9	898.4	650.7
100°	136.5	280.1	1307.0	1316.2	1069.6
102.5°	166.2	299.3	1334.3	1626.3	1392.4
105°	213.6	329.7	1318.9	2013.4	1895.9
107.5°	264.1	367.3	1245.3	2200.2	2243.1
110°	299.7	392.5	1188.3	2240.3	2379.6



TEST NUMBER: P564263

CATALOG NUMBER: SQ4-PR1-100U-075D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	331.7	421.1	1134.9	2208.6	2414.0
115°	382.7	462.5	1062.2	2102.8	2391.4
117.5°	427.3	506.7	1014.4	1953.8	2282.3
120°	456.9	535.3	995.4	1853.0	2183.7
122.5°	485.4	560.3	980.0	1758.9	2072.2
125°	525.2	597.7	962.8	1629.4	1912.3
127.5°	559.0	631.5	952.7	1519.9	1763.9
130°	581.5	654.1	948.0	1453.0	1674.9
132.5°	602.9	672.0	943.2	1396.7	1597.8
135°	632.0	700.2	936.1	1319.7	1488.0
137.5°	664.6	726.7	932.5	1255.1	1398.7
140°	682.4	743.3	930.2	1211.9	1338.1
142.5°	702.6	758.9	927.8	1173.6	1284.7
145°	732.9	783.6	924.2	1123.5	1209.1
147.5°	761.9	806.3	921.0	1081.2	1147.7
150°	783.3	819.6	919.8	1056.0	1109.7
152.5°	799.9	833.9	918.6	1034.4	1078.8
155°	826.3	853.9	916.8	1008.0	1040.0
157.5°	850.7	871.8	917.1	988.8	1010.6
160°	864.9	883.8	918.3	978.0	994.0
162.5°	876.8	893.3	919.5	968.4	980.9
165°	894.6	906.2	921.3	957.0	964.3
167.5°	908.2	915.2	922.8	950.1	952.4
170°	915.3	921.1	922.8	946.5	946.5
172.5°	921.3	924.7	922.8	941.7	940.6
175°	927.2	928.7	922.8	936.0	933.1
177.5°	929.6	928.4	922.5	930.7	928.4
180°	927.2	927.2	927.2	927.2	927.2

(END OF REPORT)