

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: P564167

Luminaire Tested: **SQ4-PR1-0U-075D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564167
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PR1-0U-075D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

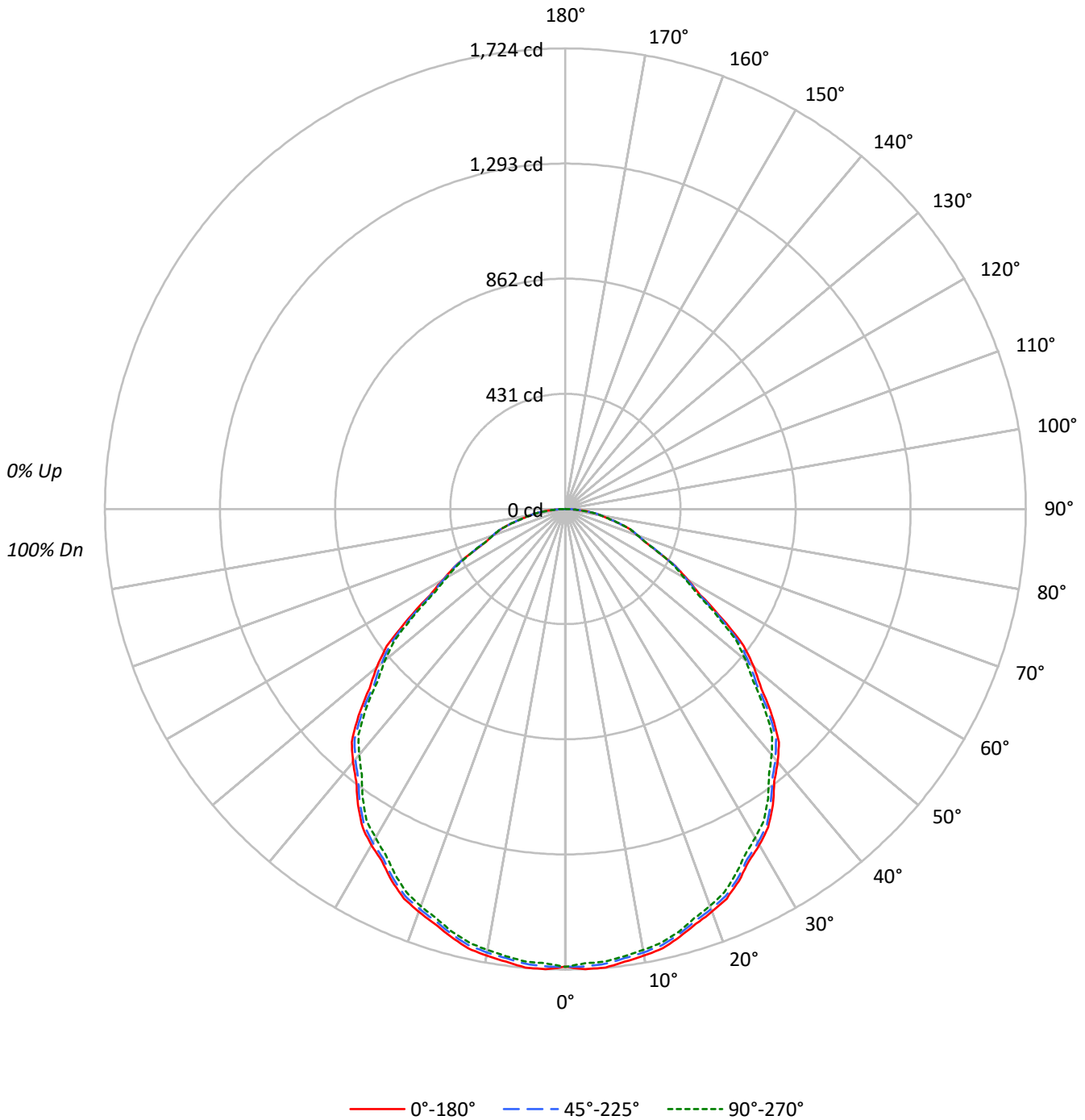
Lumens per Lamp: N/A
Luminaire Lumens: 4284.2 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				27

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.1	3.8
10°-20°	463.7	10.8
20°-30°	699.4	16.3
30°-40°	833.3	19.5
40°-50°	821.6	19.2
50°-60°	627.9	14.7
60°-70°	388.6	9.1
70°-80°	220.7	5.2
80°-90°	67.1	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1325.1	30.9
0°-40°	2158.4	50.4
0°-60°	3607.8	84.2
0°-90°	4284.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4284.2	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	64
90°	0	0	0	0	0	



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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°	15.4	20.0	23.6	23.6	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)