

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: P564071

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564071
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PR1-075U-075D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

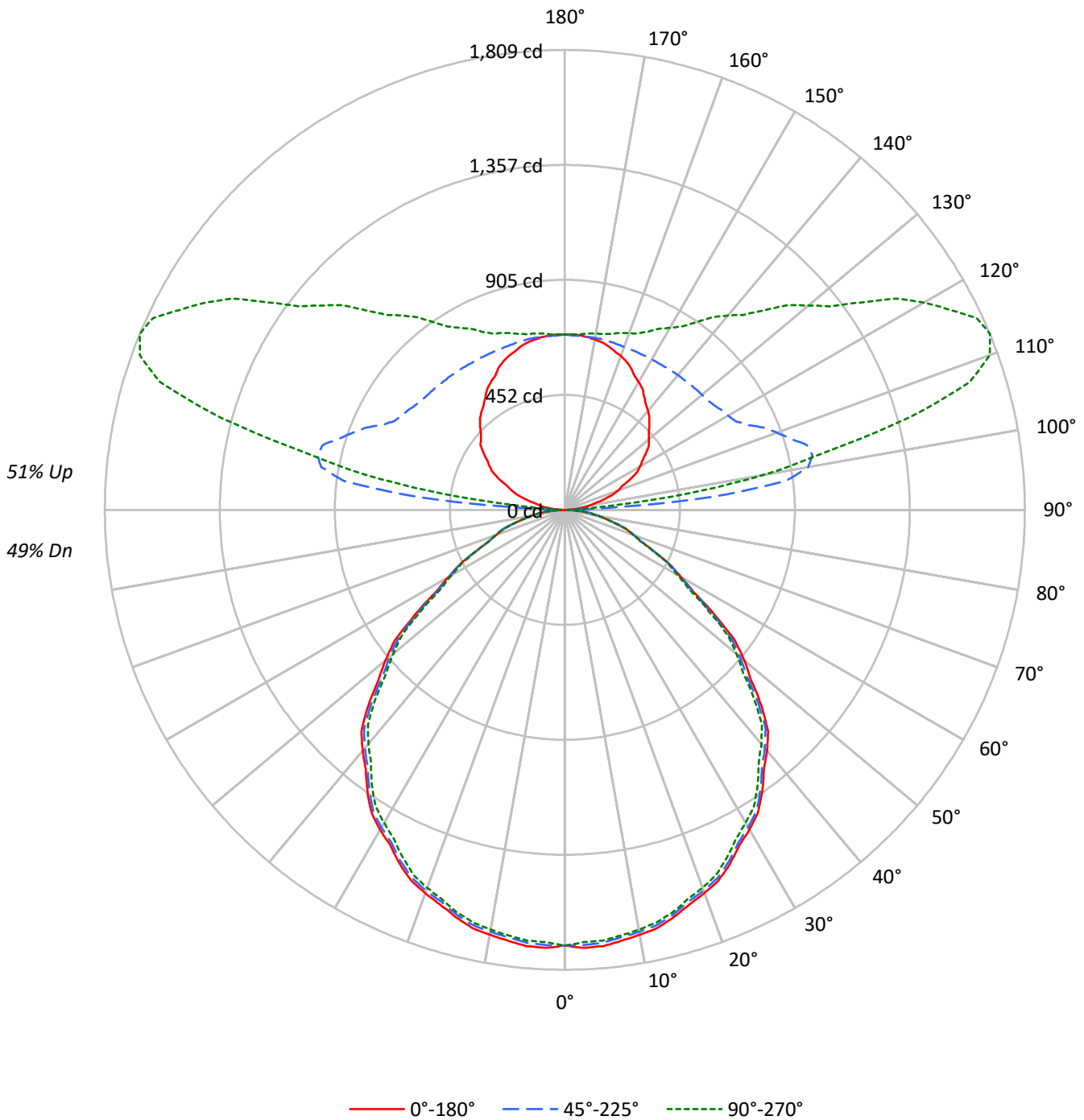
Lumens per Lamp: N/A
Luminaire Lumens: 8776.6 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49				
1	98	94	90	86	90	86	83	80	73	71	68	60	59	57	49	48	47	42				
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	44	42	40	35				
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	39	36	34	30				
4	75	64	56	50	69	59	53	47	51	45	41	42	39	36	35	32	30	26				
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23				
6	63	51	43	38	58	48	41	36	41	35	31	35	30	27	29	25	23	20				
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	21	18				
8	54	42	35	29	50	39	32	28	34	28	25	29	25	21	24	21	18	16				
9	51	39	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14				
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	21	17	15	13				

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	1.8
10°-20°	463.7	5.3
20°-30°	699.4	8.0
30°-40°	833.3	9.5
40°-50°	821.6	9.4
50°-60°	627.9	7.2
60°-70°	388.6	4.4
70°-80°	220.7	2.5
80°-90°	68.9	0.8
90°-100°	325.1	3.7
100°-110°	894.5	10.2
110°-120°	923.3	10.5
120°-130°	739.7	8.4
130°-140°	581.0	6.6
140°-150°	445.2	5.1
150°-160°	320.1	3.6
160°-170°	195.7	2.2
170°-180°	66.0	0.8
0°-30°	1325.1	15.1
0°-40°	2158.4	24.6
0°-60°	3607.8	41.1
0°-90°	4285.9	48.8
90°-120°	2142.9	24.4
90°-150°	3908.8	44.5
90°-180°	4491.0	51.2
0°-180°	8776.6	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°	2	6	10	13	13	5
95°	48	178	575	246	157	51
105°	160	246	986	1501	1401	169
115°	283	345	790	1574	1786	279
125°	390	445	717	1213	1421	348
135°	471	522	697	981	1110	363
145°	544	581	686	836	900	341
155°	616	636	682	751	773	283
165°	666	674	685	713	717	188
175°	689	691	686	695	694	65
180°	689	689	689	689	689	



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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°	15.6	21.1	25.7	26.2	25.1
90°	1.5	5.8	10.3	13.2	13.2
92.5°	20.2	86.5	149.9	57.6	47.2
95°	48.4	177.5	574.9	245.8	156.9
97.5°	78.9	196.8	877.3	676.0	477.0
100°	101.2	208.8	972.4	981.5	800.8
102.5°	122.3	223.0	997.0	1217.7	1051.9
105°	159.9	245.9	985.6	1501.0	1400.6
107.5°	195.7	274.2	929.6	1639.8	1669.6
110°	221.5	293.2	887.3	1674.3	1777.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	244.9	314.3	845.1	1652.1	1809.3
115°	283.1	344.7	790.5	1574.1	1786.4
117.5°	319.4	376.2	755.9	1464.8	1704.8
120°	341.7	396.2	740.7	1382.8	1630.9
122.5°	361.7	416.2	730.1	1311.0	1546.4
125°	390.1	444.6	717.2	1213.2	1421.2
127.5°	417.1	469.0	708.7	1131.7	1314.1
130°	431.2	484.3	704.0	1083.2	1249.6
132.5°	447.6	500.7	700.5	1040.6	1190.9
135°	470.8	522.4	696.7	981.2	1110.3
137.5°	492.5	540.4	693.4	933.2	1039.6
140°	508.9	553.4	692.3	901.2	997.3
142.5°	523.0	564.0	689.9	872.8	955.1
145°	544.1	581.4	686.4	836.0	900.5
147.5°	566.7	598.8	684.6	803.4	855.1
150°	580.8	609.5	683.5	785.6	825.7
152.5°	593.7	620.1	682.3	770.2	803.4
155°	616.0	636.1	682.0	751.4	772.9
157.5°	632.1	648.5	682.0	736.0	750.9
160°	643.9	656.8	682.0	727.7	739.2
162.5°	653.2	663.9	683.2	720.6	729.8
165°	665.9	674.5	684.9	712.9	717.2
167.5°	674.7	681.3	686.4	706.4	707.5
170°	680.5	684.8	686.4	704.0	704.0
172.5°	685.2	687.2	686.4	700.4	699.3
175°	689.3	690.8	686.4	695.2	693.7
177.5°	690.5	690.5	685.8	692.8	690.5
180°	689.3	689.3	689.3	689.3	689.3

(END OF REPORT)