

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: P564802

Luminaire Tested: **SQ4-PW1-075U-125D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564802
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-075U-125D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

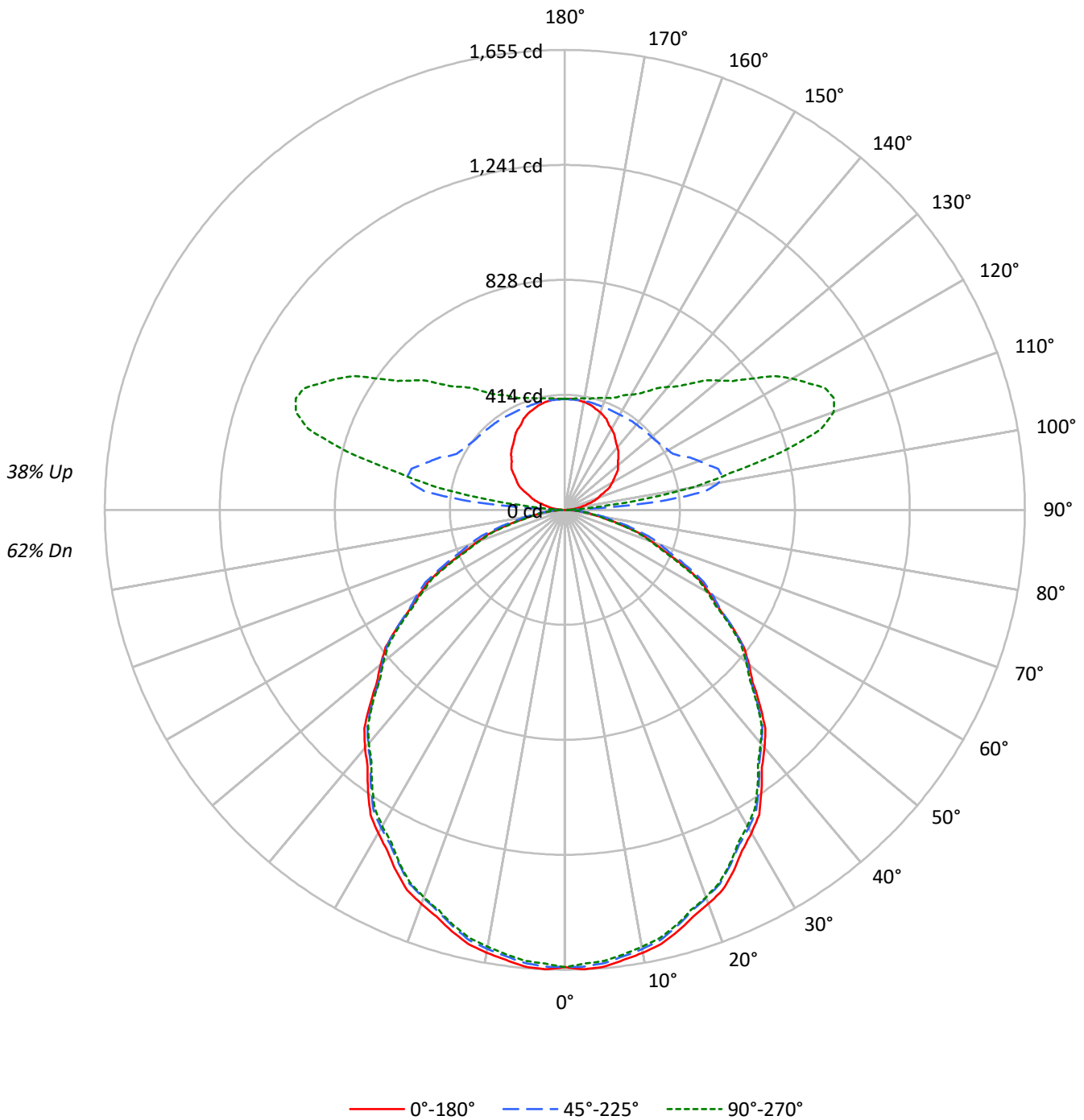
Lumens per Lamp: N/A
Luminaire Lumens: 6789.0 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 62.1
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	59	58	57	52
2	92	84	78	73	86	79	74	69	69	65	62	61	57	55	52	50	48	44
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41	37
4	77	66	58	51	71	62	55	49	55	49	44	48	43	40	42	38	35	32
5	70	59	50	44	66	55	48	42	49	43	38	43	38	35	37	34	31	28
6	65	53	44	38	61	50	42	37	44	38	34	39	34	30	34	30	27	24
7	60	48	39	34	56	45	38	32	40	34	30	35	31	27	31	27	24	22
8	56	43	35	30	52	41	34	29	37	31	26	32	28	24	29	25	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15182	15182	15182
5°	15280	15159	15092
10°	15158	15036	14954
15°	14998	14832	14776
20°	14819	14591	14563
25°	14611	14346	14302
30°	14302	14086	13993
35°	13896	13700	13618
40°	13463	13253	13201
45°	12940	12769	12712
50°	12403	12298	12215
55°	11824	11824	11638
60°	11103	11317	10915
65°	10160	10667	9907
70°	8956	9816	8721
75°	7650	8787	7443
80°	5929	7396	6009
85°	3832	5674	5060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	2.3
10°-20°	437.5	6.4
20°-30°	648.9	9.6
30°-40°	759.3	11.2
40°-50°	755.9	11.1
50°-60°	652.8	9.6
60°-70°	469.9	6.9
70°-80°	246.4	3.6
80°-90°	62.1	0.9
90°-100°	188.3	2.8
100°-110°	518.1	7.6
110°-120°	534.8	7.9
120°-130°	428.5	6.3
130°-140°	336.5	5.0
140°-150°	257.9	3.8
150°-160°	185.4	2.7
160°-170°	113.4	1.7
170°-180°	38.2	0.6
0°-30°	1241.3	18.3
0°-40°	2000.7	29.5
0°-60°	3409.3	50.2
0°-90°	4187.7	61.7
90°-120°	1241.3	18.3
90°-150°	2264.2	33.4
90°-180°	2601.0	38.3
0°-180°	6789.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1646	1646	1646	1646	1646	
5°	1650	1632	1637	1632	1630	156
15°	1570	1550	1553	1550	1547	443
25°	1435	1411	1409	1401	1405	660
35°	1234	1217	1216	1205	1209	771
45°	992	983	979	976	974	765
55°	735	734	735	725	724	656
65°	465	480	489	469	454	461
75°	215	234	246	230	209	230
85°	36	48	54	51	48	48
90°	1	3	6	8	8	3
95°	28	103	333	142	91	30
105°	93	142	571	870	811	98
115°	164	200	458	912	1035	162
125°	226	258	415	703	823	202
135°	273	303	404	568	643	210
145°	315	337	398	484	522	198
155°	357	368	395	435	448	164
165°	386	391	397	413	415	109
175°	399	400	398	403	402	38
180°	399	399	399	399	399	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1645.5	1645.5	1645.5	1645.5	1645.5
2.5°	1654.8	1641.2	1645.5	1641.9	1633.9
5°	1649.9	1631.5	1636.8	1632.4	1629.6
7.5°	1633.1	1616.1	1620.0	1615.3	1613.6
10°	1618.0	1601.0	1604.9	1599.1	1596.2
12.5°	1600.6	1582.5	1586.4	1580.6	1578.9
15°	1570.2	1550.3	1552.8	1549.8	1547.0
17.5°	1534.8	1514.6	1515.1	1510.4	1509.8
20°	1509.3	1488.0	1486.1	1480.3	1483.2
22.5°	1481.4	1459.0	1457.1	1449.0	1453.0
25°	1435.3	1411.2	1409.2	1400.6	1404.9
27.5°	1382.0	1358.1	1358.2	1346.1	1350.6
30°	1342.5	1319.8	1322.2	1307.9	1313.5
32.5°	1300.8	1280.4	1281.6	1267.3	1272.9
35°	1233.8	1216.8	1216.4	1204.9	1209.1
37.5°	1165.4	1150.3	1148.0	1141.3	1142.5
40°	1117.8	1105.1	1100.4	1096.1	1096.1
42.5°	1067.9	1056.3	1051.7	1048.5	1047.3
45°	991.7	983.2	978.6	975.7	974.3
47.5°	916.3	908.3	904.4	902.3	900.9
50°	864.1	858.4	856.8	852.5	851.0
52.5°	811.9	808.5	807.0	801.4	800.0
55°	735.1	733.6	735.1	724.9	723.5
57.5°	655.0	657.3	662.0	648.3	644.9
60°	601.7	607.3	613.3	597.2	591.5
62.5°	547.2	556.2	564.6	546.1	538.2
65°	465.4	479.6	488.6	469.4	453.8
67.5°	386.5	404.1	414.9	394.2	376.7
70°	332.0	351.9	363.9	343.2	323.3
72.5°	284.5	306.6	316.3	296.8	276.9
75°	214.6	234.4	246.5	230.0	208.8
77.5°	152.2	170.9	180.9	166.6	149.0
80°	111.6	131.5	139.2	127.3	113.1
82.5°	79.2	95.6	100.9	93.7	84.1
85°	36.2	47.6	53.6	50.7	47.8
87.5°	9.4	17.9	23.2	23.6	24.7
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	50.1	86.8	33.3	27.4
95°	28.0	102.8	333.0	142.4	90.9
97.5°	45.7	114.0	508.2	391.6	276.3
100°	58.6	120.9	563.3	568.5	463.9
102.5°	70.9	129.2	577.5	705.3	609.3
105°	92.6	142.4	570.9	869.5	811.3
107.5°	113.3	158.9	538.5	949.9	967.2
110°	128.3	169.8	514.0	969.9	1029.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.9	182.1	489.5	957.0	1048.0
115°	164.0	199.7	457.9	911.8	1034.8
117.5°	185.0	217.9	437.9	848.5	987.5
120°	198.0	229.5	429.0	801.0	944.7
122.5°	209.5	241.1	422.9	759.4	895.8
125°	226.0	257.6	415.4	702.8	823.2
127.5°	241.6	271.7	410.5	655.6	761.2
130°	249.8	280.5	407.8	627.5	723.8
132.5°	259.3	290.0	405.8	602.8	689.9
135°	272.7	302.6	403.5	568.4	643.1
137.5°	285.3	313.0	401.7	540.5	602.2
140°	294.8	320.6	401.0	522.1	577.7
142.5°	303.0	326.7	399.6	505.6	553.2
145°	315.2	336.8	397.6	484.3	521.6
147.5°	328.3	346.9	396.6	465.4	495.3
150°	336.4	353.0	395.9	455.1	478.3
152.5°	343.9	359.2	395.2	446.1	465.4
155°	356.8	368.5	395.1	435.3	447.7
157.5°	366.2	375.6	395.1	426.3	435.0
160°	373.0	380.4	395.1	421.5	428.2
162.5°	378.4	384.5	395.7	417.4	422.7
165°	385.7	390.7	396.8	412.9	415.4
167.5°	390.8	394.6	397.6	409.2	409.8
170°	394.2	396.7	397.6	407.8	407.8
172.5°	396.9	398.1	397.6	405.7	405.1
175°	399.3	400.1	397.6	402.7	401.8
177.5°	400.0	400.0	397.3	401.3	400.0
180°	399.3	399.3	399.3	399.3	399.3

(END OF REPORT)