

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: P564611

Luminaire Tested: **SQ4-PW1-025U-125D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564611
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PW1-025U-125D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

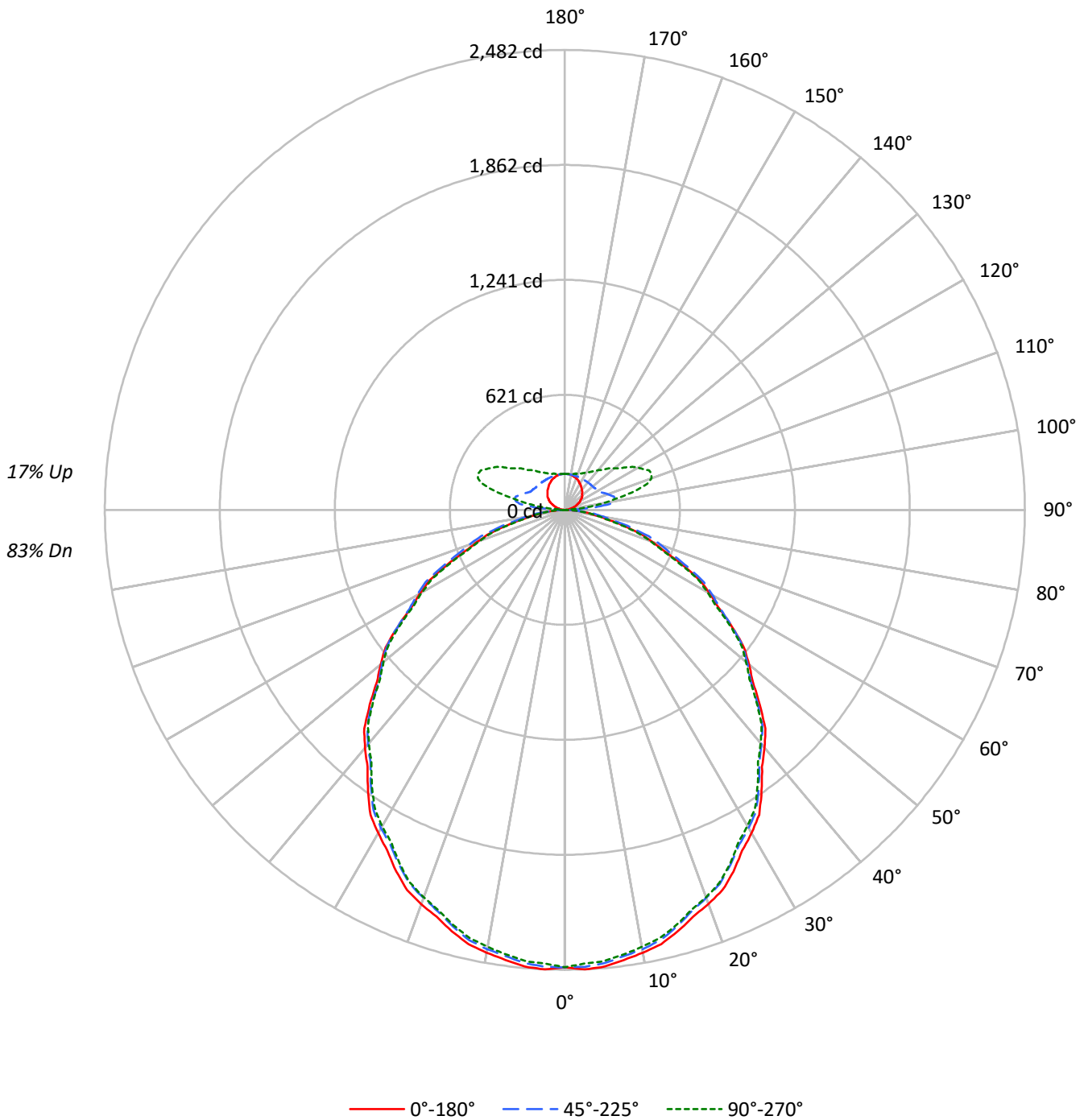
Lumens per Lamp: N/A
Luminaire Lumens: 7540.0 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 77.9
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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71
2	96	88	82	77	92	85	79	74	79	74	70	73	69	66	68	65	62	59
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	60	56	53	50
4	81	69	61	54	77	67	59	53	62	56	51	58	53	48	54	50	46	43
5	74	62	53	47	71	60	52	46	56	49	44	52	46	42	49	44	40	38
6	68	56	47	41	65	54	46	40	50	44	39	47	41	37	44	39	35	33
7	63	51	42	36	61	49	41	36	46	39	34	43	37	33	40	35	31	29
8	59	46	38	32	57	45	37	32	42	35	31	40	34	29	37	32	28	26
9	55	42	34	29	53	41	34	29	39	32	28	36	31	27	34	29	26	24
10	52	39	31	26	50	38	31	26	36	29	25	34	28	24	32	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15182	15182	15182
5°	15280	15160	15092
10°	15158	15036	14955
15°	14997	14831	14776
20°	14818	14591	14562
25°	14612	14346	14302
30°	14303	14086	13994
35°	13896	13700	13619
40°	13463	13253	13201
45°	12939	12769	12712
50°	12402	12299	12216
55°	11824	11824	11637
60°	11102	11316	10915
65°	10160	10667	9907
70°	8956	9817	8722
75°	7650	8786	7443
80°	5933	7396	6007
85°	3839	5681	5067



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.4	3.1
10°-20°	656.2	8.7
20°-30°	973.4	12.9
30°-40°	1139.0	15.1
40°-50°	1133.9	15.0
50°-60°	979.1	13.0
60°-70°	704.8	9.3
70°-80°	369.6	4.9
80°-90°	92.7	1.2
90°-100°	94.7	1.3
100°-110°	248.9	3.3
110°-120°	258.1	3.4
120°-130°	207.0	2.7
130°-140°	162.4	2.2
140°-150°	124.6	1.7
150°-160°	89.8	1.2
160°-170°	54.9	0.7
170°-180°	18.6	0.2
0°-30°	1862.0	24.7
0°-40°	3001.0	39.8
0°-60°	5114.0	67.8
0°-90°	6281.1	83.3
90°-120°	601.6	8.0
90°-150°	1095.7	14.5
90°-180°	1259.0	16.7
0°-180°	7540.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2468	2468	2468	2468	2468	
5°	2475	2447	2455	2449	2444	234
15°	2355	2326	2329	2325	2320	664
25°	2153	2117	2114	2101	2107	990
35°	1851	1825	1825	1807	1814	1157
45°	1488	1475	1468	1464	1461	1148
55°	1103	1100	1103	1087	1085	984
65°	698	719	733	704	681	692
75°	322	352	370	345	313	345
85°	54	71	80	76	72	72
90°	1	4	10	5	5	3
95°	12	49	163	84	57	14
105°	45	68	275	418	390	48
115°	80	97	220	440	502	79
125°	111	124	200	339	400	98
135°	132	145	194	274	310	102
145°	153	163	192	233	252	96
155°	173	178	192	211	217	80
165°	187	189	192	199	202	53
175°	194	194	193	196	196	18
180°	194	194	194	194	194	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2468.3	2468.3	2468.3	2468.3	2468.3
2.5°	2482.2	2461.8	2468.3	2462.8	2450.9
5°	2474.8	2447.2	2455.3	2448.6	2444.4
7.5°	2449.6	2424.1	2430.0	2423.0	2420.5
10°	2427.0	2401.5	2407.4	2398.6	2394.4
12.5°	2400.9	2373.7	2379.6	2370.8	2368.3
15°	2355.2	2325.5	2329.1	2324.7	2320.4
17.5°	2302.2	2272.0	2272.6	2265.6	2264.8
20°	2263.9	2232.0	2229.1	2220.5	2224.7
22.5°	2222.1	2188.5	2185.6	2173.6	2179.5
25°	2153.0	2116.8	2113.8	2100.9	2107.3
27.5°	2072.9	2037.2	2037.3	2019.2	2026.0
30°	2013.8	1979.8	1983.3	1961.8	1970.3
32.5°	1951.2	1920.5	1922.5	1900.9	1909.4
35°	1850.7	1825.2	1824.6	1807.3	1813.7
37.5°	1748.0	1725.5	1721.9	1712.0	1713.7
40°	1676.7	1657.6	1650.6	1644.1	1644.1
42.5°	1601.9	1584.5	1577.5	1572.7	1571.0
45°	1487.5	1474.8	1467.9	1463.5	1461.4
47.5°	1374.4	1362.5	1356.6	1353.5	1351.4
50°	1296.1	1287.6	1285.3	1278.7	1276.6
52.5°	1217.8	1212.7	1210.5	1202.1	1200.0
55°	1102.6	1100.5	1102.6	1087.3	1085.2
57.5°	982.5	985.9	993.0	972.4	967.3
60°	902.5	911.0	919.9	895.8	887.3
62.5°	820.7	834.4	846.8	819.2	807.3
65°	698.1	719.4	732.9	704.1	680.7
67.5°	579.8	606.1	622.4	591.4	565.0
70°	498.0	527.8	545.9	514.7	485.0
72.5°	426.7	459.9	474.5	445.1	415.4
75°	321.9	351.6	369.7	345.1	313.2
77.5°	228.3	256.4	271.4	249.9	223.6
80°	167.5	197.2	208.8	190.9	169.6
82.5°	118.7	143.4	151.4	140.6	126.1
85°	54.4	71.4	80.5	76.0	71.8
87.5°	14.2	26.6	35.0	34.1	35.8
90°	1.2	3.7	10.0	5.0	5.0
92.5°	5.2	25.2	55.8	24.7	15.9
95°	12.5	49.0	163.1	84.1	57.3
97.5°	21.7	53.8	244.0	194.1	142.9
100°	28.6	57.9	268.9	272.5	211.7
102.5°	34.6	61.9	275.9	339.5	287.4
105°	44.8	68.0	275.2	417.7	389.7
107.5°	55.3	76.7	259.5	458.3	465.2
110°	62.3	81.7	246.5	468.8	498.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.2	87.7	234.6	462.2	507.0
115°	79.7	96.7	220.4	439.7	501.8
117.5°	89.9	105.5	210.7	408.5	477.4
120°	95.9	110.5	206.7	387.5	454.4
122.5°	101.8	116.5	203.7	366.6	432.5
125°	110.8	124.2	200.5	338.8	399.7
127.5°	118.0	131.7	197.7	316.4	367.8
130°	122.0	136.6	196.7	302.4	349.9
132.5°	126.0	140.6	195.7	290.3	332.9
135°	132.0	145.4	194.2	273.5	310.0
137.5°	138.2	151.3	194.0	260.9	290.8
140°	143.2	155.4	193.0	250.9	278.9
142.5°	147.2	158.4	193.0	243.8	267.9
145°	153.1	162.9	191.7	233.2	251.5
147.5°	159.1	168.6	191.7	224.5	239.6
150°	163.1	171.6	191.7	219.4	231.6
152.5°	167.1	173.7	191.7	215.4	224.6
155°	173.1	177.9	191.7	210.6	216.6
157.5°	177.5	182.2	191.7	206.3	210.7
160°	180.5	184.2	191.7	204.2	206.7
162.5°	183.5	186.2	191.7	202.3	204.7
165°	186.8	189.2	191.7	199.3	201.7
167.5°	189.7	191.0	193.0	198.0	199.0
170°	191.7	193.0	193.0	198.0	198.0
172.5°	192.7	193.0	193.0	196.9	196.0
175°	194.2	194.2	193.0	195.5	195.5
177.5°	194.2	194.2	193.2	195.2	194.2
180°	194.2	194.2	194.2	194.2	194.2

(END OF REPORT)