

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: P564615

Luminaire Tested: **SQ4-PW1-025U-125D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564615
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-940-1D-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

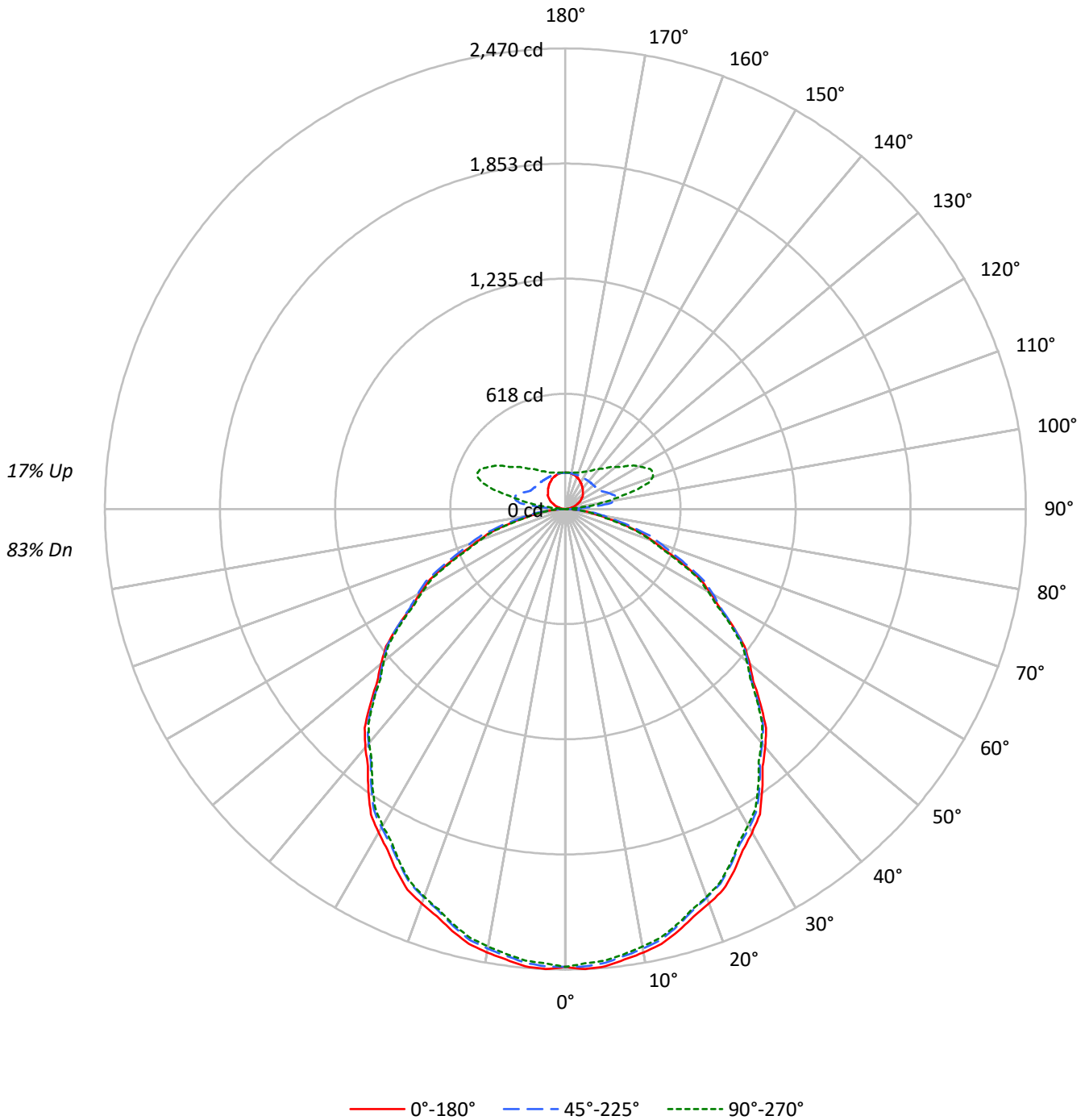
Lumens per Lamp: N/A
Luminaire Lumens: 7514.3 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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	70
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	49	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	50	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	39	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°	15105	15105	15105
5°	15203	15083	15016
10°	15081	14960	14878
15°	14922	14756	14701
20°	14743	14517	14488
25°	14537	14273	14229
30°	14230	14015	13923
35°	13826	13631	13550
40°	13394	13186	13134
45°	12874	12704	12648
50°	12340	12236	12154
55°	11764	11764	11578
60°	11046	11258	10860
65°	10108	10613	9856
70°	8911	9767	8677
75°	7610	8741	7405
80°	5901	7357	5979
85°	3818	5653	5039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.3	3.1
10°-20°	652.9	8.7
20°-30°	968.4	12.9
30°-40°	1133.2	15.1
40°-50°	1128.1	15.0
50°-60°	974.2	13.0
60°-70°	701.2	9.3
70°-80°	367.7	4.9
80°-90°	92.2	1.2
90°-100°	95.1	1.3
100°-110°	250.1	3.3
110°-120°	259.3	3.5
120°-130°	208.0	2.8
130°-140°	163.2	2.2
140°-150°	125.3	1.7
150°-160°	90.2	1.2
160°-170°	55.2	0.7
170°-180°	18.6	0.2
0°-30°	1852.6	24.7
0°-40°	2985.7	39.7
0°-60°	5088.0	67.7
0°-90°	6249.2	83.2
90°-120°	604.6	8.0
90°-150°	1101.1	14.7
90°-180°	1265.0	16.8
0°-180°	7514.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2456	2456	2456	2456	2456	
5°	2462	2435	2443	2436	2432	233
15°	2343	2314	2317	2313	2309	660
25°	2142	2106	2103	2090	2097	985
35°	1841	1816	1815	1798	1804	1151
45°	1480	1467	1460	1456	1454	1142
55°	1097	1095	1097	1082	1080	979
65°	694	716	729	700	677	688
75°	320	350	368	343	312	343
85°	54	71	80	76	71	71
90°	1	4	10	5	5	3
95°	12	49	164	84	58	14
105°	45	68	276	420	392	48
115°	80	97	222	442	504	79
125°	111	125	201	340	402	99
135°	133	146	195	275	312	103
145°	154	164	193	234	253	96
155°	174	179	193	212	218	80
165°	188	190	193	200	203	53
175°	195	195	194	196	196	19
180°	195	195	195	195	195	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2455.8	2455.8	2455.8	2455.8	2455.8
2.5°	2469.6	2449.3	2455.8	2450.3	2438.5
5°	2462.3	2434.8	2442.8	2436.2	2432.0
7.5°	2437.2	2411.8	2417.7	2410.7	2408.2
10°	2414.7	2389.3	2395.2	2386.4	2382.2
12.5°	2388.7	2361.6	2367.5	2358.8	2356.2
15°	2343.3	2313.6	2317.3	2312.9	2308.6
17.5°	2290.5	2260.4	2261.0	2254.1	2253.3
20°	2252.4	2220.7	2217.8	2209.2	2213.4
22.5°	2210.9	2177.4	2174.5	2162.5	2168.4
25°	2142.0	2106.1	2103.1	2090.3	2096.6
27.5°	2062.4	2026.9	2026.9	2008.9	2015.7
30°	2003.6	1969.7	1973.3	1951.8	1960.3
32.5°	1941.3	1910.8	1912.7	1891.3	1899.7
35°	1841.3	1815.9	1815.3	1798.2	1804.5
37.5°	1739.2	1716.7	1713.2	1703.3	1705.0
40°	1668.2	1649.2	1642.2	1635.7	1635.7
42.5°	1593.8	1576.4	1569.5	1564.7	1563.0
45°	1480.0	1467.3	1460.5	1456.1	1454.0
47.5°	1367.4	1355.6	1349.7	1346.6	1344.5
50°	1289.6	1281.1	1278.7	1272.2	1270.1
52.5°	1211.7	1206.6	1204.3	1196.0	1193.9
55°	1097.0	1094.9	1097.0	1081.8	1079.7
57.5°	977.6	980.9	987.9	967.5	962.4
60°	897.9	906.4	915.2	891.2	882.8
62.5°	816.6	830.1	842.5	815.0	803.2
65°	694.5	715.7	729.2	700.5	677.2
67.5°	576.8	603.1	619.2	588.4	562.1
70°	495.5	525.1	543.1	512.1	482.5
72.5°	424.5	457.5	472.1	442.9	413.3
75°	320.2	349.8	367.8	343.3	311.6
77.5°	227.2	255.1	270.0	248.7	222.4
80°	166.6	196.2	207.7	189.9	168.8
82.5°	118.1	142.7	150.6	139.9	125.5
85°	54.1	71.0	80.1	75.6	71.4
87.5°	14.1	26.4	34.9	33.9	35.6
90°	1.3	3.7	10.0	5.0	5.0
92.5°	5.3	25.3	56.1	24.8	16.0
95°	12.5	49.2	163.9	84.5	57.6
97.5°	21.8	54.1	245.2	195.0	143.6
100°	28.8	58.1	270.3	273.9	212.7
102.5°	34.8	62.2	277.3	341.1	288.8
105°	45.0	68.3	276.5	419.8	391.6
107.5°	55.6	77.1	260.8	460.6	467.5
110°	62.6	82.1	247.7	471.1	500.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.6	88.2	235.7	464.5	509.5
115°	80.1	97.2	221.5	441.8	504.2
117.5°	90.3	106.0	211.7	410.5	479.7
120°	96.3	111.0	207.7	389.4	456.7
122.5°	102.3	117.0	204.7	368.4	434.7
125°	111.4	124.8	201.4	340.5	401.6
127.5°	118.6	132.3	198.7	318.0	369.6
130°	122.6	137.3	197.7	303.9	351.6
132.5°	126.6	141.3	196.7	291.8	334.6
135°	132.6	146.1	195.2	274.8	311.6
137.5°	138.9	152.1	194.9	262.2	292.3
140°	143.9	156.1	193.9	252.1	280.3
142.5°	147.9	159.1	193.9	245.0	269.3
145°	153.9	163.7	192.7	234.4	252.7
147.5°	159.9	169.4	192.7	225.6	240.7
150°	163.9	172.5	192.7	220.5	232.7
152.5°	167.9	174.5	192.7	216.4	225.7
155°	173.9	178.8	192.7	211.6	217.7
157.5°	178.4	183.1	192.7	207.3	211.7
160°	181.4	185.1	192.7	205.3	207.7
162.5°	184.4	187.1	192.7	203.3	205.7
165°	187.7	190.1	192.7	200.2	202.7
167.5°	190.7	191.9	193.9	199.0	199.9
170°	192.7	193.9	193.9	198.9	198.9
172.5°	193.7	193.9	193.9	197.9	196.9
175°	195.2	195.2	193.9	196.4	196.4
177.5°	195.2	195.2	194.2	196.2	195.2
180°	195.2	195.2	195.2	195.2	195.2

(END OF REPORT)