

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: P562593

Luminaire Tested: **SQ4-PC3-025U-125D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562593
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-025U-125D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID 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: 15340.1 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

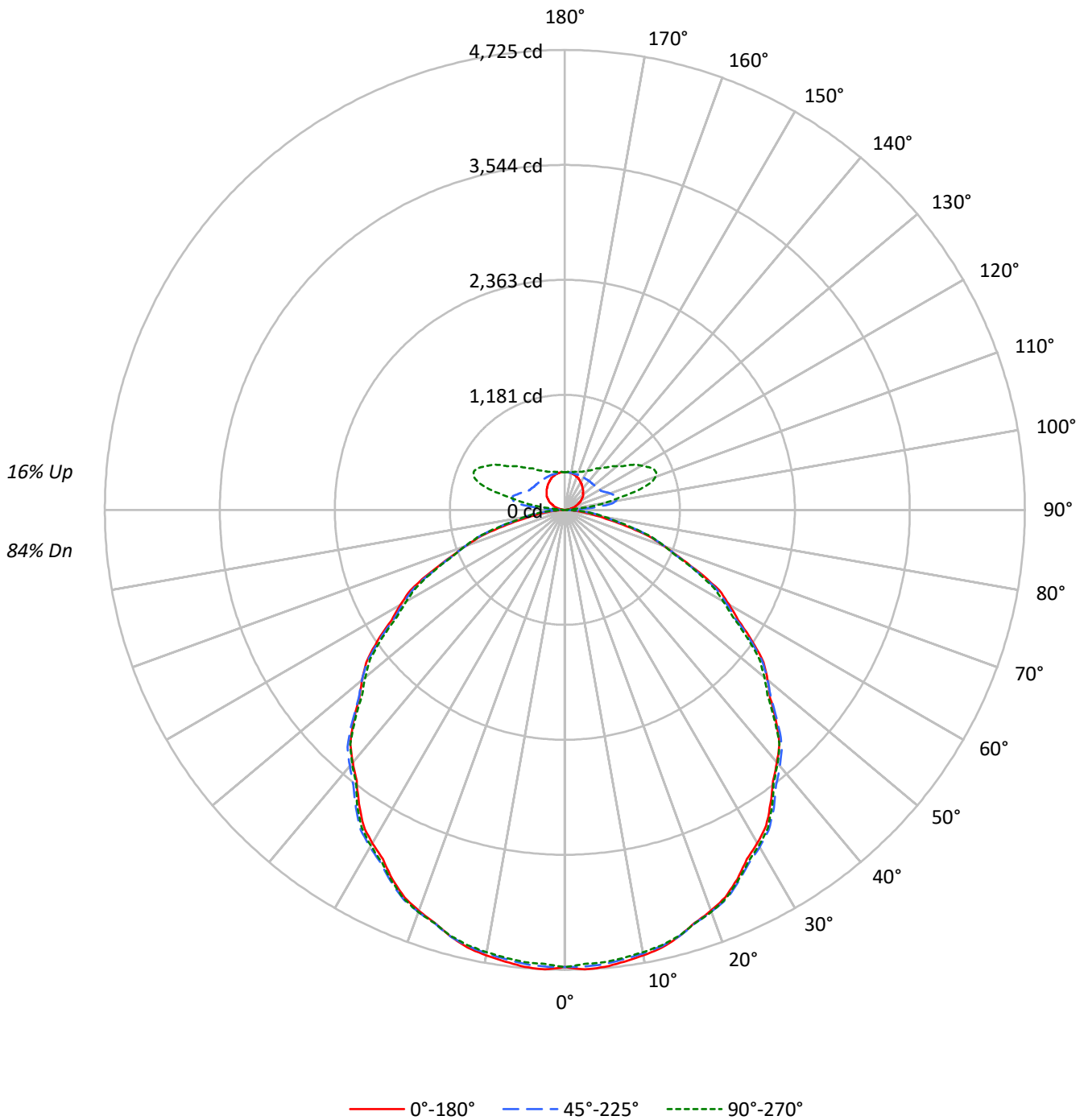
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20									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	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84																												
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71																												
2	96	88	82	76	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	80	69	60	54	77	66	59	53	62	55	50	58	52	48	54	49	46	43																												
5	74	61	53	46	71	59	51	45	55	49	43	52	46	42	48	44	40	37																												
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	33																												
7	63	50	42	36	60	48	41	35	45	39	34	43	37	32	40	35	31	29																												
8	59	46	37	32	56	44	37	31	42	35	30	39	33	29	37	32	28	26																												
9	55	42	34	28	53	41	33	28	38	32	27	36	30	26	34	29	25	23																												
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	21																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14446	14446	14446
5°	14555	14461	14408
10°	14520	14452	14411
15°	14444	14444	14430
20°	14348	14391	14391
25°	14213	14316	14272
30°	14040	14210	14148
35°	13831	14043	13945
40°	13602	13795	13655
45°	13355	13450	13242
50°	13006	13006	12798
55°	12593	12430	12244
60°	11985	11744	11557
65°	11078	10857	10761
70°	9700	9778	9738
75°	7804	8631	8682
80°	5547	7318	7394
85°	3377	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.6	2.9
10°-20°	1275.8	8.3
20°-30°	1932.0	12.6
30°-40°	2316.2	15.1
40°-50°	2361.7	15.4
50°-60°	2061.6	13.4
60°-70°	1475.9	9.6
70°-80°	760.2	5.0
80°-90°	194.3	1.3
90°-100°	189.3	1.2
100°-110°	497.7	3.2
110°-120°	516.1	3.4
120°-130°	414.0	2.7
130°-140°	324.8	2.1
140°-150°	249.3	1.6
150°-160°	179.6	1.2
160°-170°	109.9	0.7
170°-180°	37.1	0.2
0°-30°	3652.3	23.8
0°-40°	5968.5	38.9
0°-60°	10391.8	67.7
0°-90°	12822.2	83.6
90°-120°	1203.2	7.8
90°-150°	2191.3	14.3
90°-180°	2518.0	16.4
0°-180°	15340.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4697	4697	4697	4697	4697	
5°	4715	4668	4684	4671	4667	448
15°	4536	4498	4536	4536	4532	1279
25°	4188	4159	4219	4206	4206	1928
35°	3684	3676	3740	3714	3714	2304
45°	3071	3062	3092	3053	3045	2364
55°	2349	2319	2318	2284	2284	2094
65°	1522	1488	1492	1479	1479	1506
75°	657	686	726	731	731	710
85°	96	147	174	178	174	130
90°	2	7	20	10	10	6
95°	25	98	326	168	114	28
105°	90	136	550	835	779	95
115°	159	194	441	879	1004	157
125°	222	248	401	678	799	197
135°	264	291	388	547	620	204
145°	306	326	384	466	503	192
155°	346	356	384	421	433	159
165°	374	378	384	398	403	105
175°	388	388	386	391	391	37
180°	388	388	388	388	388	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4697.4	4697.4	4697.4	4697.4	4697.4
2.5°	4725.2	4684.4	4697.4	4686.6	4669.6
5°	4714.8	4668.0	4684.4	4671.2	4667.0
7.5°	4680.9	4634.1	4655.6	4646.9	4642.6
10°	4649.6	4602.8	4627.8	4619.0	4614.8
12.5°	4607.8	4564.4	4593.0	4584.3	4583.4
15°	4536.5	4498.2	4536.5	4536.4	4532.1
17.5°	4446.9	4412.0	4453.0	4455.5	4453.0
20°	4384.2	4346.0	4397.3	4393.0	4397.3
22.5°	4307.7	4276.2	4331.2	4320.0	4324.2
25°	4188.5	4158.7	4219.0	4205.9	4205.9
27.5°	4047.6	4026.3	4092.0	4078.0	4078.0
30°	3953.6	3932.4	4001.5	3984.1	3984.1
32.5°	3849.3	3834.8	3900.6	3879.7	3879.7
35°	3684.0	3675.5	3740.5	3714.4	3714.4
37.5°	3513.5	3505.8	3564.8	3533.3	3523.1
40°	3388.2	3384.0	3436.1	3401.3	3401.3
42.5°	3263.0	3258.7	3303.8	3262.1	3262.1
45°	3070.7	3062.2	3092.5	3053.1	3044.6
47.5°	2861.1	2852.6	2871.5	2828.8	2824.5
50°	2718.4	2709.9	2718.4	2679.2	2674.9
52.5°	2572.3	2557.0	2558.3	2519.2	2518.3
55°	2348.7	2318.9	2318.3	2283.5	2283.5
57.5°	2112.1	2073.0	2076.4	2046.8	2042.5
60°	1948.6	1906.0	1909.4	1883.2	1879.0
62.5°	1788.5	1739.2	1749.3	1719.8	1718.9
65°	1522.3	1488.3	1491.9	1478.8	1478.8
67.5°	1266.6	1235.1	1257.9	1247.4	1246.6
70°	1078.7	1057.4	1087.4	1087.3	1083.0
72.5°	904.7	903.8	941.2	941.3	943.8
75°	656.8	686.5	726.4	730.7	730.7
77.5°	438.4	491.2	535.0	536.7	535.9
80°	313.2	372.7	413.2	421.8	417.5
82.5°	212.3	275.2	308.8	317.4	313.2
85°	95.7	146.7	174.0	178.2	174.0
87.5°	28.3	59.9	73.6	71.4	64.6
90°	2.5	7.4	19.9	10.0	10.0
92.5°	10.5	50.4	111.6	49.4	31.9
95°	24.9	97.9	326.2	168.1	114.5
97.5°	43.3	107.6	488.1	388.1	285.9
100°	57.3	115.7	537.9	545.1	423.3
102.5°	69.2	123.8	551.8	678.9	574.7
105°	89.6	135.9	550.3	835.4	779.4
107.5°	110.6	153.4	518.9	916.7	930.3
110°	124.5	163.5	493.0	937.6	996.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	138.5	175.5	469.1	924.4	1014.0
115°	159.4	193.5	440.8	879.3	1003.5
117.5°	179.8	211.0	421.3	816.9	954.7
120°	191.7	221.0	413.4	775.0	908.9
122.5°	203.7	232.9	407.4	733.1	865.1
125°	221.6	248.4	400.9	677.6	799.3
127.5°	236.1	263.3	395.4	632.8	735.6
130°	244.0	273.2	393.4	604.8	699.7
132.5°	252.0	281.2	391.4	580.6	665.9
135°	264.0	290.7	388.5	547.0	620.0
137.5°	276.4	302.7	388.0	521.8	581.7
140°	286.4	310.7	386.0	501.8	557.8
142.5°	294.3	316.7	386.0	487.7	535.9
145°	306.3	325.8	383.5	466.5	503.0
147.5°	318.2	337.2	383.5	448.9	479.1
150°	326.2	343.3	383.5	438.8	463.2
152.5°	334.2	347.3	383.5	430.7	449.2
155°	346.1	355.9	383.5	421.1	433.3
157.5°	355.1	364.3	383.5	412.6	421.3
160°	361.1	368.4	383.5	408.5	413.4
162.5°	367.0	372.4	383.5	404.5	409.4
165°	373.5	378.4	383.5	398.5	403.4
167.5°	379.5	381.9	386.0	396.0	397.9
170°	383.5	385.9	386.0	395.9	395.9
172.5°	385.5	386.0	386.0	393.9	391.9
175°	388.5	388.5	386.0	390.9	390.9
177.5°	388.5	388.5	386.5	390.4	388.5
180°	388.5	388.5	388.5	388.5	388.5

(END OF REPORT)