

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: P564585

Luminaire Tested: **SQ4-PW1-025U-100D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564585
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-100D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 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: 12362.2 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

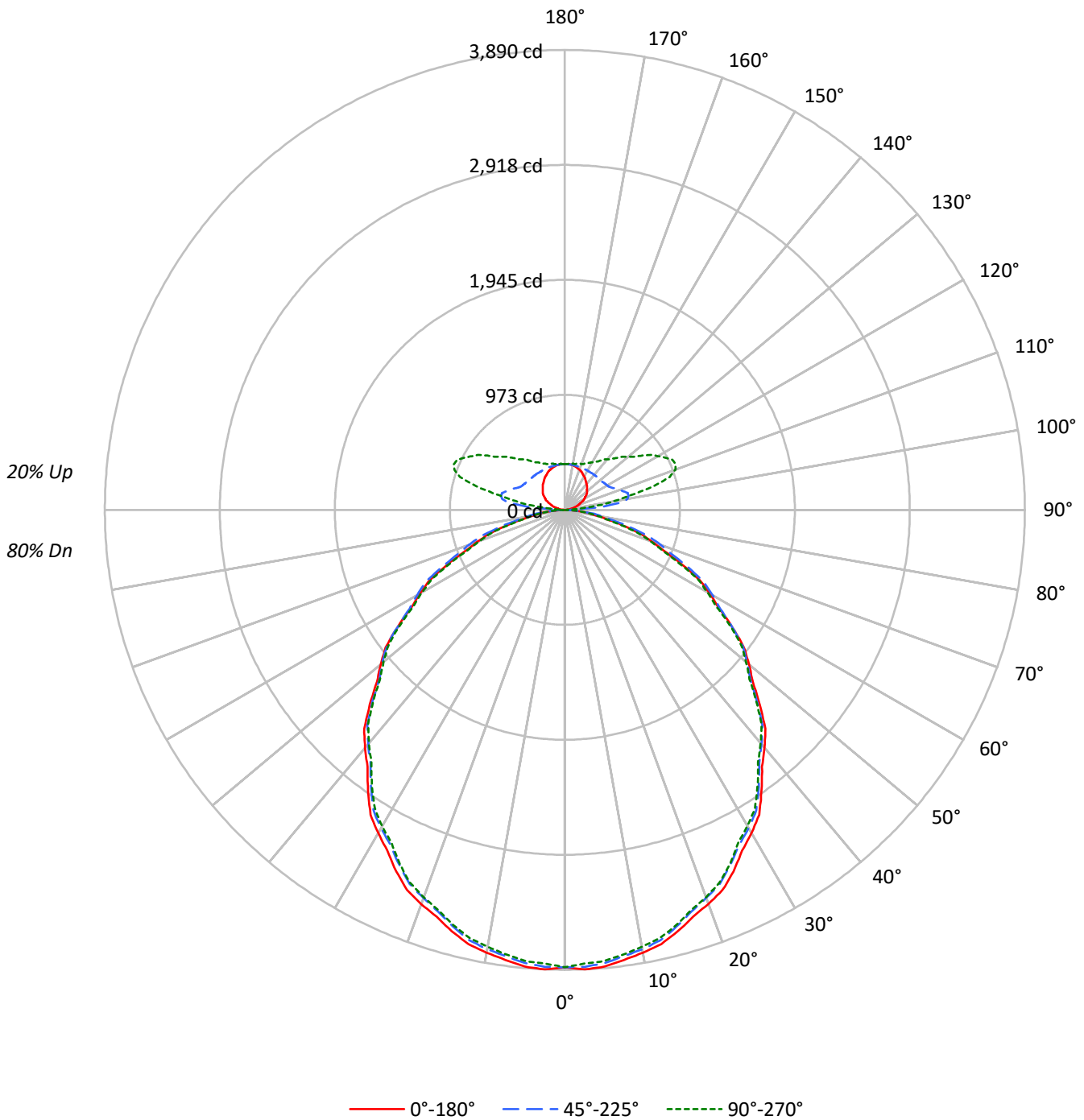
Input Watts (W): 123.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	105	100	96	93	100	96	92	89	88	85	83	81	79	77	74	72	71	67
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60	57
3	87	77	70	63	83	74	67	62	68	63	58	63	58	54	58	54	51	48
4	80	69	60	54	76	66	58	52	61	55	50	56	51	47	52	48	44	41
5	73	61	53	46	70	59	51	45	55	48	43	51	45	41	47	42	38	36
6	68	55	47	41	65	53	45	40	49	43	38	46	40	36	42	38	34	32
7	63	50	42	36	60	48	40	35	45	38	33	42	36	32	39	34	30	28
8	58	46	37	32	56	44	36	31	41	35	30	38	33	28	36	31	27	25
9	55	42	34	29	52	40	33	28	38	31	27	35	30	26	33	28	25	23
10	51	39	31	26	49	37	30	25	35	29	24	33	27	23	31	26	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11897	11897	11897
5°	11974	11879	11827
10°	11878	11782	11718
15°	11752	11622	11579
20°	11612	11433	11411
25°	11450	11242	11207
30°	11208	11038	10966
35°	10890	10736	10672
40°	10550	10385	10345
45°	10139	10006	9962
50°	9719	9637	9572
55°	9265	9265	9119
60°	8700	8868	8553
65°	7962	8358	7763
70°	7018	7693	6835
75°	5994	6885	5832
80°	4647	5795	4707
85°	3006	4450	3970



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.3	2.9
10°-20°	1028.4	8.3
20°-30°	1525.5	12.3
30°-40°	1785.0	14.4
40°-50°	1777.0	14.4
50°-60°	1534.5	12.4
60°-70°	1104.6	8.9
70°-80°	579.3	4.7
80°-90°	145.7	1.2
90°-100°	189.3	1.5
100°-110°	497.7	4.0
110°-120°	516.1	4.2
120°-130°	414.0	3.3
130°-140°	324.8	2.6
140°-150°	249.3	2.0
150°-160°	179.6	1.5
160°-170°	109.9	0.9
170°-180°	37.1	0.3
0°-30°	2918.2	23.6
0°-40°	4703.2	38.0
0°-60°	8014.8	64.8
0°-90°	9844.4	79.6
90°-120°	1203.2	9.7
90°-150°	2191.3	17.7
90°-180°	2518.0	20.4
0°-180°	12362.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3868	3868	3868	3868	3868	
5°	3879	3835	3848	3838	3831	367
15°	3691	3644	3650	3643	3637	1040
25°	3374	3318	3313	3293	3303	1552
35°	2900	2860	2860	2832	2842	1813
45°	2331	2311	2301	2294	2290	1799
55°	1728	1725	1728	1704	1701	1542
65°	1094	1127	1149	1104	1067	1084
75°	504	551	579	541	491	541
85°	85	112	126	119	112	112
90°	2	7	20	10	10	5
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°	3868.4	3868.4	3868.4	3868.4	3868.4
2.5°	3890.2	3858.2	3868.4	3859.8	3841.2
5°	3878.6	3835.3	3848.0	3837.6	3830.9
7.5°	3839.1	3799.1	3808.4	3797.4	3793.4
10°	3803.7	3763.7	3773.0	3759.2	3752.5
12.5°	3762.8	3720.1	3729.4	3715.6	3711.6
15°	3691.2	3644.5	3650.3	3643.3	3636.7
17.5°	3608.0	3560.7	3561.7	3550.7	3549.4
20°	3548.0	3498.1	3493.5	3480.0	3486.7
22.5°	3482.6	3429.9	3425.3	3406.5	3415.8
25°	3374.2	3317.6	3312.9	3292.6	3302.6
27.5°	3248.8	3192.8	3192.9	3164.5	3175.2
30°	3156.1	3102.8	3108.4	3074.6	3087.9
32.5°	3057.9	3009.9	3012.9	2979.2	2992.5
35°	2900.5	2860.5	2859.6	2832.5	2842.5
37.5°	2739.6	2704.3	2698.7	2683.1	2685.7
40°	2627.8	2597.8	2586.9	2576.7	2576.7
42.5°	2510.6	2483.2	2472.4	2464.8	2462.2
45°	2331.3	2311.3	2300.6	2293.7	2290.4
47.5°	2154.0	2135.4	2126.1	2121.3	2117.9
50°	2031.3	2018.0	2014.3	2004.0	2000.7
52.5°	1908.6	1900.7	1897.1	1884.0	1880.7
55°	1728.0	1724.7	1728.0	1704.1	1700.7
57.5°	1539.9	1545.2	1556.2	1524.0	1516.0
60°	1414.4	1427.8	1441.7	1403.9	1390.6
62.5°	1286.3	1307.6	1327.2	1283.8	1265.2
65°	1094.1	1127.4	1148.6	1103.5	1066.8
67.5°	908.7	950.0	975.5	926.8	885.5
70°	780.5	827.2	855.5	806.7	760.1
72.5°	668.7	720.7	743.7	697.6	651.0
75°	504.4	551.1	579.4	540.8	490.8
77.5°	357.9	401.9	425.4	391.7	350.4
80°	262.4	309.1	327.2	299.2	265.8
82.5°	186.1	224.8	237.2	220.3	197.7
85°	85.2	111.9	126.1	119.1	112.5
87.5°	22.3	41.9	55.8	53.9	56.5
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)