

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: P565065

Luminaire Tested: **SQ4-PW1-125U-100D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565065
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PW1-125U-100D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22878.7 lumens
Efficiency: N/A
Efficacy: 113.7 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: General Diffuse

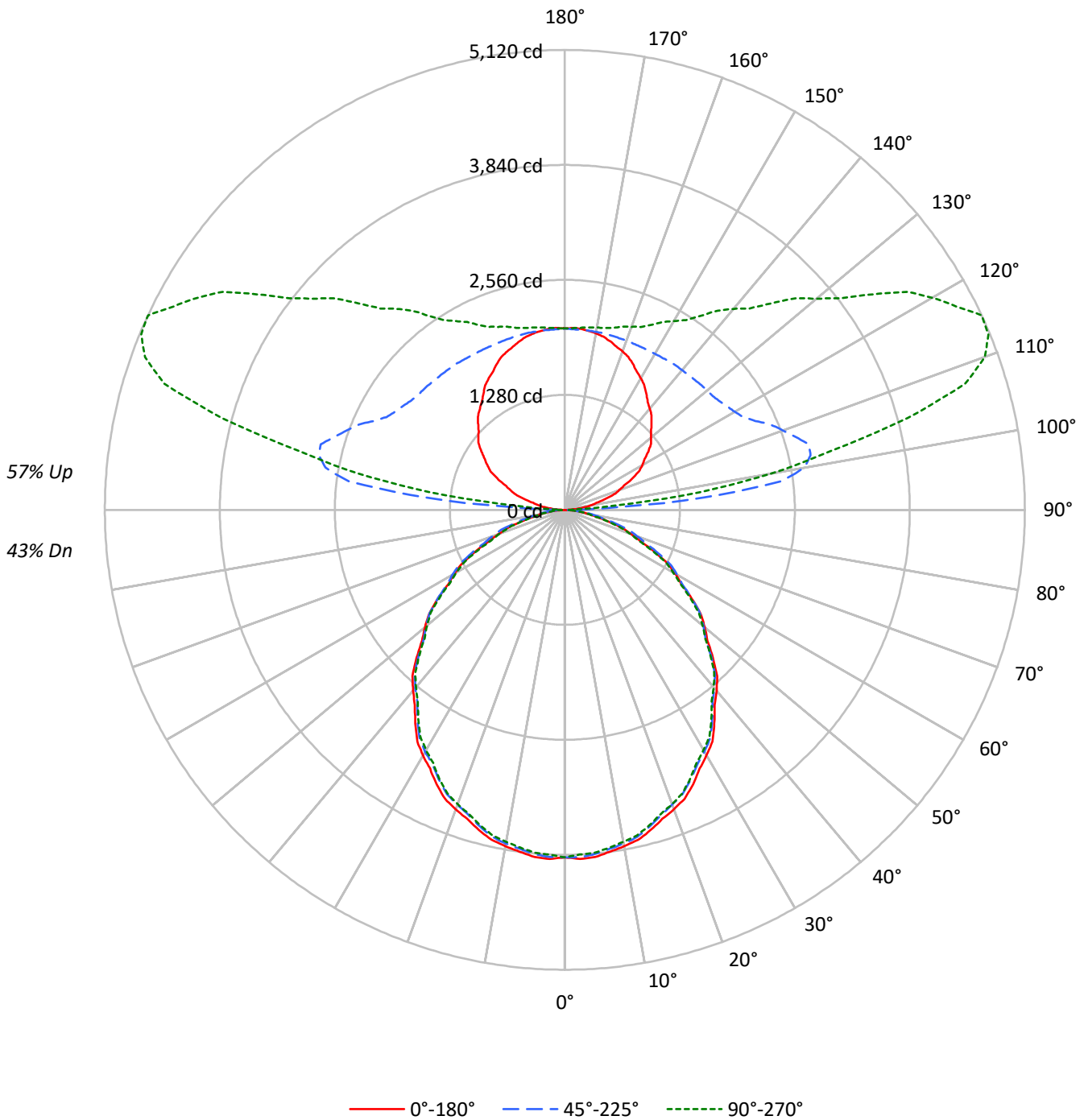
Input Watts (W): 201.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36
2	88	80	74	69	80	74	69	64	61	57	54	50	47	45	39	37	36	31
3	80	71	64	58	73	65	59	54	54	49	46	44	41	38	34	32	30	26
4	73	63	55	49	67	58	51	45	48	43	39	39	35	32	31	28	26	22
5	67	56	48	42	61	51	44	39	43	38	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	14
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	17	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

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	1.6
10°-20°	1028.4	4.5
20°-30°	1525.5	6.7
30°-40°	1785.0	7.8
40°-50°	1777.0	7.8
50°-60°	1534.5	6.7
60°-70°	1104.6	4.8
70°-80°	579.3	2.5
80°-90°	148.4	0.6
90°-100°	944.3	4.1
100°-110°	2543.8	11.1
110°-120°	2669.6	11.7
120°-130°	2166.3	9.5
130°-140°	1699.0	7.4
140°-150°	1304.4	5.7
150°-160°	937.9	4.1
160°-170°	573.0	2.5
170°-180°	193.2	0.8
0°-30°	2918.2	12.8
0°-40°	4703.2	20.6
0°-60°	8014.8	35.0
0°-90°	9847.1	43.0
90°-120°	6157.8	26.9
90°-150°	11327.5	49.5
90°-180°	13032.0	57.0
0°-180°	22878.7	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°	5	15	31	33	33	13
95°	144	514	1548	792	548	150
105°	471	732	2813	4209	3950	495
115°	831	1017	2343	4526	5120	817
125°	1134	1302	2104	3555	4184	1013
135°	1366	1524	2044	2868	3248	1054
145°	1579	1702	2019	2452	2633	990
155°	1792	1858	2001	2200	2271	825
165°	1944	1967	2008	2088	2098	548
175°	2021	2019	2011	2039	2034	192
180°	2019	2019	2019	2019	2019	

TEST NUMBER: P565065

CATALOG NUMBER: SQ4-PW1-125U-100D-935-1D-UNV-STD-W-12

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°	22.8	43.5	58.0	58.6	61.2
90°	5.1	15.2	30.9	33.4	33.4
92.5°	62.7	221.7	438.2	210.9	146.6
95°	144.0	513.6	1548.1	791.6	547.7
97.5°	229.9	587.9	2428.0	2028.4	1529.6
100°	295.7	617.6	2707.8	2833.2	2350.4
102.5°	359.5	659.2	2800.4	3435.8	3039.6
105°	470.6	732.1	2813.3	4208.9	3949.9
107.5°	575.5	808.8	2693.4	4606.1	4673.0
110°	645.5	866.7	2584.4	4729.5	4973.4

TEST NUMBER: P565065

CATALOG NUMBER: SQ4-PW1-125U-100D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	719.5	924.7	2479.5	4702.2	5103.0
115°	830.6	1016.7	2342.7	4526.5	5119.9
117.5°	931.9	1106.4	2236.7	4246.2	4907.0
120°	997.8	1166.2	2183.2	4045.0	4723.9
122.5°	1055.4	1221.8	2144.2	3839.3	4516.1
125°	1134.0	1302.5	2103.5	3555.3	4183.9
127.5°	1209.7	1375.6	2077.8	3304.8	3866.1
130°	1254.9	1420.9	2067.5	3161.3	3654.2
132.5°	1300.2	1464.1	2057.2	3034.9	3487.5
135°	1365.5	1523.9	2044.4	2868.2	3247.9
137.5°	1427.7	1579.6	2037.7	2726.7	3038.5
140°	1470.9	1616.8	2031.5	2639.7	2921.3
142.5°	1516.2	1652.0	2027.4	2558.4	2795.8
145°	1578.9	1702.1	2018.7	2452.2	2633.3
147.5°	1646.8	1753.9	2009.9	2362.9	2505.2
150°	1692.1	1785.1	2005.8	2306.8	2425.0
152.5°	1733.2	1814.2	2003.7	2261.0	2357.1
155°	1792.4	1857.7	2000.7	2200.3	2270.7
157.5°	1844.3	1895.1	2001.2	2157.6	2204.8
160°	1877.2	1920.0	2003.2	2132.6	2167.8
162.5°	1906.0	1940.7	2005.3	2111.8	2137.0
165°	1944.1	1966.7	2008.4	2088.3	2098.4
167.5°	1974.9	1988.0	2010.9	2070.2	2074.2
170°	1995.5	2000.5	2010.9	2059.8	2059.8
172.5°	2007.9	2008.9	2013.0	2049.5	2049.5
175°	2021.2	2018.7	2010.9	2039.1	2034.1
177.5°	2026.9	2022.9	2012.5	2028.9	2024.8
180°	2018.7	2018.7	2018.7	2018.7	2018.7

(END OF REPORT)