

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: P565073

Luminaire Tested: **SQ4-PW1-125U-125D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565073
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-125D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27805.9 lumens
Efficiency: N/A
Efficacy: 118.9 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

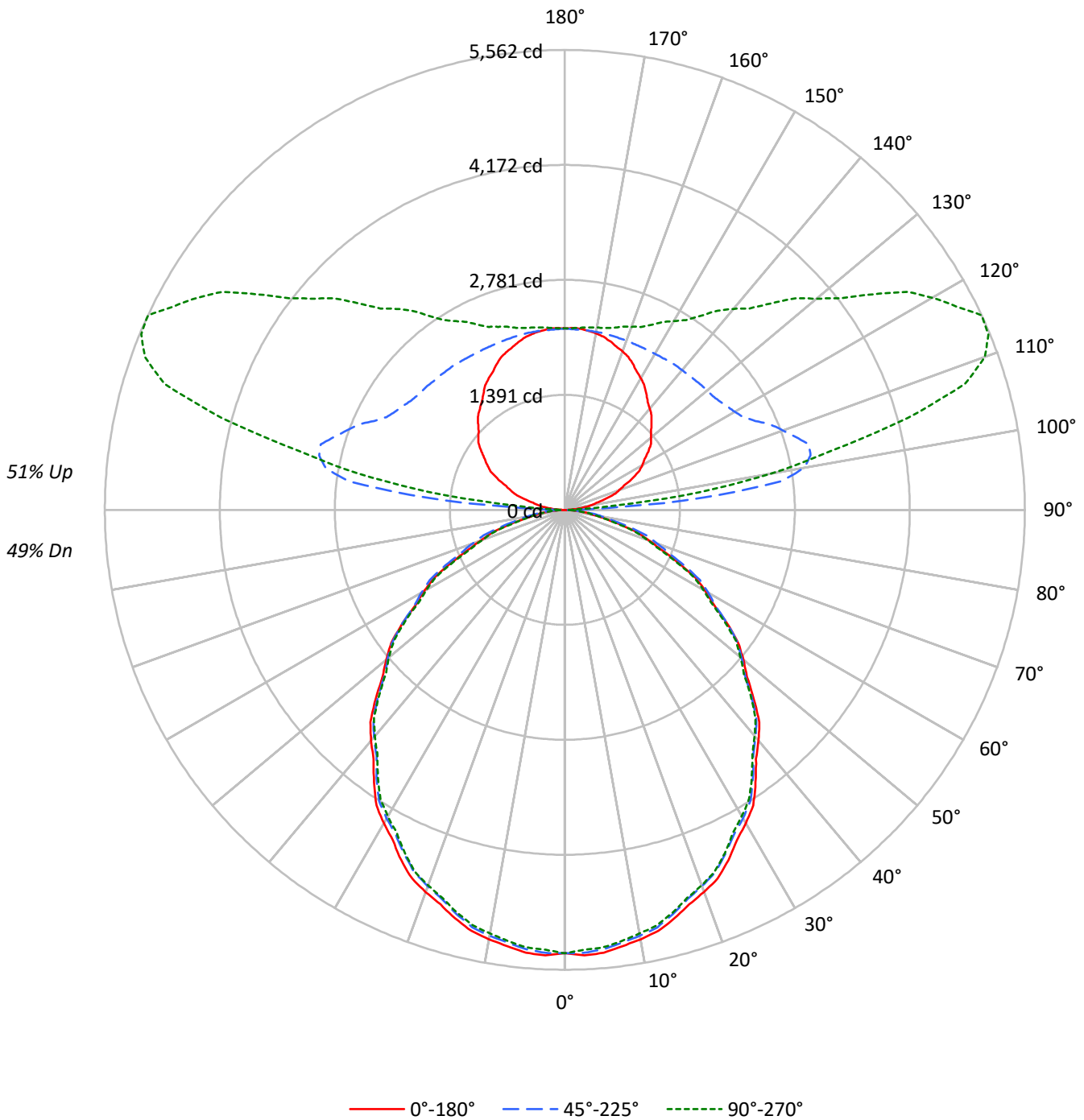
Input Watts (W): 233.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	107	107	107	107	99	99	99	99	83	83	83	68	68	68	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	50	48	43	41	40	35
3	81	72	65	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	53	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	31	37	31	27	31	27	23	26	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	15
9	50	38	31	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16492	16492	16492
5°	16599	16468	16395
10°	16467	16334	16245
15°	16292	16111	16051
20°	16097	15850	15819
25°	15873	15584	15536
30°	15537	15302	15201
35°	15096	14883	14794
40°	14625	14397	14340
45°	14056	13871	13809
50°	13473	13360	13270
55°	12844	12844	12642
60°	12060	12293	11858
65°	11037	11587	10762
70°	9729	10663	9474
75°	8309	9544	8085
80°	6443	8033	6526
85°	4167	6168	5501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.0	1.8
10°-20°	1425.7	5.1
20°-30°	2114.8	7.6
30°-40°	2474.5	8.9
40°-50°	2463.5	8.9
50°-60°	2127.3	7.7
60°-70°	1531.3	5.5
70°-80°	803.0	2.9
80°-90°	204.2	0.7
90°-100°	1025.9	3.7
100°-110°	2763.4	9.9
110°-120°	2900.1	10.4
120°-130°	2353.3	8.5
130°-140°	1845.6	6.6
140°-150°	1417.0	5.1
150°-160°	1018.8	3.7
160°-170°	622.4	2.2
170°-180°	209.9	0.8
0°-30°	4045.5	14.5
0°-40°	6520.0	23.4
0°-60°	11110.8	40.0
0°-90°	13649.4	49.1
90°-120°	6689.3	24.1
90°-150°	12305.3	44.3
90°-180°	14156.0	50.9
0°-180°	27805.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5363	5363	5363	5363	5363	
5°	5377	5317	5334	5320	5311	509
15°	5117	5052	5060	5051	5041	1442
25°	4678	4599	4593	4564	4578	2151
35°	4021	3965	3964	3927	3940	2514
45°	3232	3204	3189	3180	3175	2494
55°	2396	2391	2396	2362	2358	2137
65°	1517	1563	1592	1530	1479	1503
75°	699	764	803	750	680	750
85°	118	155	175	165	156	156
90°	6	16	34	36	36	15
95°	156	558	1682	860	595	163
105°	511	795	3056	4572	4291	537
115°	902	1104	2545	4917	5562	888
125°	1232	1415	2285	3862	4545	1100
135°	1483	1655	2221	3116	3528	1145
145°	1715	1849	2193	2664	2861	1076
155°	1947	2018	2173	2390	2467	896
165°	2112	2136	2182	2269	2280	596
175°	2196	2193	2184	2215	2210	209
180°	2193	2193	2193	2193	2193	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5362.7	5362.7	5362.7	5362.7	5362.7
2.5°	5393.0	5348.6	5362.7	5350.8	5324.9
5°	5376.9	5316.9	5334.4	5320.0	5310.8
7.5°	5322.1	5266.7	5279.6	5264.3	5258.8
10°	5273.0	5217.5	5230.4	5211.3	5202.1
12.5°	5216.3	5157.1	5170.0	5150.9	5145.4
15°	5117.0	5052.4	5060.3	5050.7	5041.4
17.5°	5001.8	4936.2	4937.5	4922.3	4920.5
20°	4918.6	4849.3	4843.0	4824.3	4833.6
22.5°	4827.9	4754.9	4748.5	4722.3	4735.3
25°	4677.6	4599.1	4592.6	4564.5	4578.4
27.5°	4503.8	4426.1	4426.3	4386.9	4401.7
30°	4375.2	4301.3	4309.1	4262.3	4280.7
32.5°	4239.2	4172.6	4176.8	4130.0	4148.4
35°	4020.9	3965.4	3964.2	3926.7	3940.5
37.5°	3797.9	3748.9	3741.2	3719.5	3723.2
40°	3642.9	3601.3	3586.2	3572.0	3572.0
42.5°	3480.3	3442.5	3427.4	3416.9	3413.3
45°	3231.8	3204.1	3189.3	3179.7	3175.1
47.5°	2986.1	2960.3	2947.4	2940.7	2936.0
50°	2816.0	2797.5	2792.4	2778.1	2773.5
52.5°	2645.9	2634.8	2629.9	2611.8	2607.2
55°	2395.5	2390.9	2395.5	2362.3	2357.7
57.5°	2134.7	2142.1	2157.4	2112.7	2101.6
60°	1960.8	1979.3	1998.6	1946.2	1927.8
62.5°	1783.2	1812.7	1839.9	1779.7	1753.9
65°	1516.7	1562.9	1592.3	1529.7	1478.9
67.5°	1259.7	1316.9	1352.3	1284.8	1227.5
70°	1082.0	1146.7	1185.9	1118.3	1053.6
72.5°	927.0	999.1	1031.0	967.1	902.5
75°	699.3	764.0	803.2	749.7	680.4
77.5°	496.1	557.1	589.7	543.0	485.7
80°	363.8	428.5	453.6	414.7	368.5
82.5°	258.0	311.6	328.9	305.5	274.0
85°	118.1	155.1	174.8	165.2	155.9
87.5°	31.4	59.4	78.5	79.2	82.9
90°	5.6	16.5	33.5	36.3	36.3
92.5°	68.2	240.8	476.0	229.2	159.2
95°	156.4	558.0	1681.7	860.0	595.0
97.5°	249.7	638.7	2637.6	2203.5	1661.6
100°	321.3	670.9	2941.6	3077.7	2553.3
102.5°	390.5	716.1	3042.1	3732.4	3301.9
105°	511.2	795.3	3056.1	4572.2	4290.8
107.5°	625.2	878.7	2925.9	5003.7	5076.4
110°	701.2	941.5	2807.5	5137.7	5402.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	781.6	1004.5	2693.5	5108.0	5543.4
115°	902.3	1104.4	2544.9	4917.3	5561.9
117.5°	1012.4	1201.9	2429.8	4612.7	5330.6
120°	1083.9	1266.9	2371.7	4394.2	5131.7
122.5°	1146.5	1327.3	2329.2	4170.7	4906.0
125°	1231.9	1414.9	2285.1	3862.2	4545.0
127.5°	1314.1	1494.3	2257.2	3590.1	4199.8
130°	1363.2	1543.5	2246.0	3434.2	3969.6
132.5°	1412.4	1590.5	2234.8	3296.9	3788.6
135°	1483.4	1655.4	2220.8	3115.8	3528.2
137.5°	1551.0	1715.9	2213.6	2962.1	3300.8
140°	1597.9	1756.3	2206.9	2867.5	3173.4
142.5°	1647.1	1794.5	2202.4	2779.3	3037.1
145°	1715.2	1849.1	2192.9	2663.9	2860.6
147.5°	1789.0	1905.3	2183.4	2566.8	2721.4
150°	1838.1	1939.2	2178.9	2505.9	2634.3
152.5°	1882.8	1970.8	2176.7	2456.2	2560.5
155°	1947.1	2018.1	2173.3	2390.2	2466.7
157.5°	2003.5	2058.7	2173.9	2343.8	2395.2
160°	2039.3	2085.7	2176.1	2316.7	2354.9
162.5°	2070.5	2108.2	2178.4	2294.1	2321.4
165°	2111.9	2136.5	2181.7	2268.6	2279.5
167.5°	2145.4	2159.6	2184.5	2248.9	2253.2
170°	2167.8	2173.2	2184.5	2237.6	2237.6
172.5°	2181.2	2182.3	2186.8	2226.4	2226.4
175°	2195.7	2193.0	2184.5	2215.1	2209.7
177.5°	2201.8	2197.5	2186.2	2204.0	2199.6
180°	2192.9	2192.9	2192.9	2192.9	2192.9

(END OF REPORT)