

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: P565181

Luminaire Tested: **SQ4-PW1-150U-125D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565181  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PW1-150U-125D-930-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25888.3 lumens  
Efficiency: N/A  
Efficacy: 101.0 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: General Diffuse

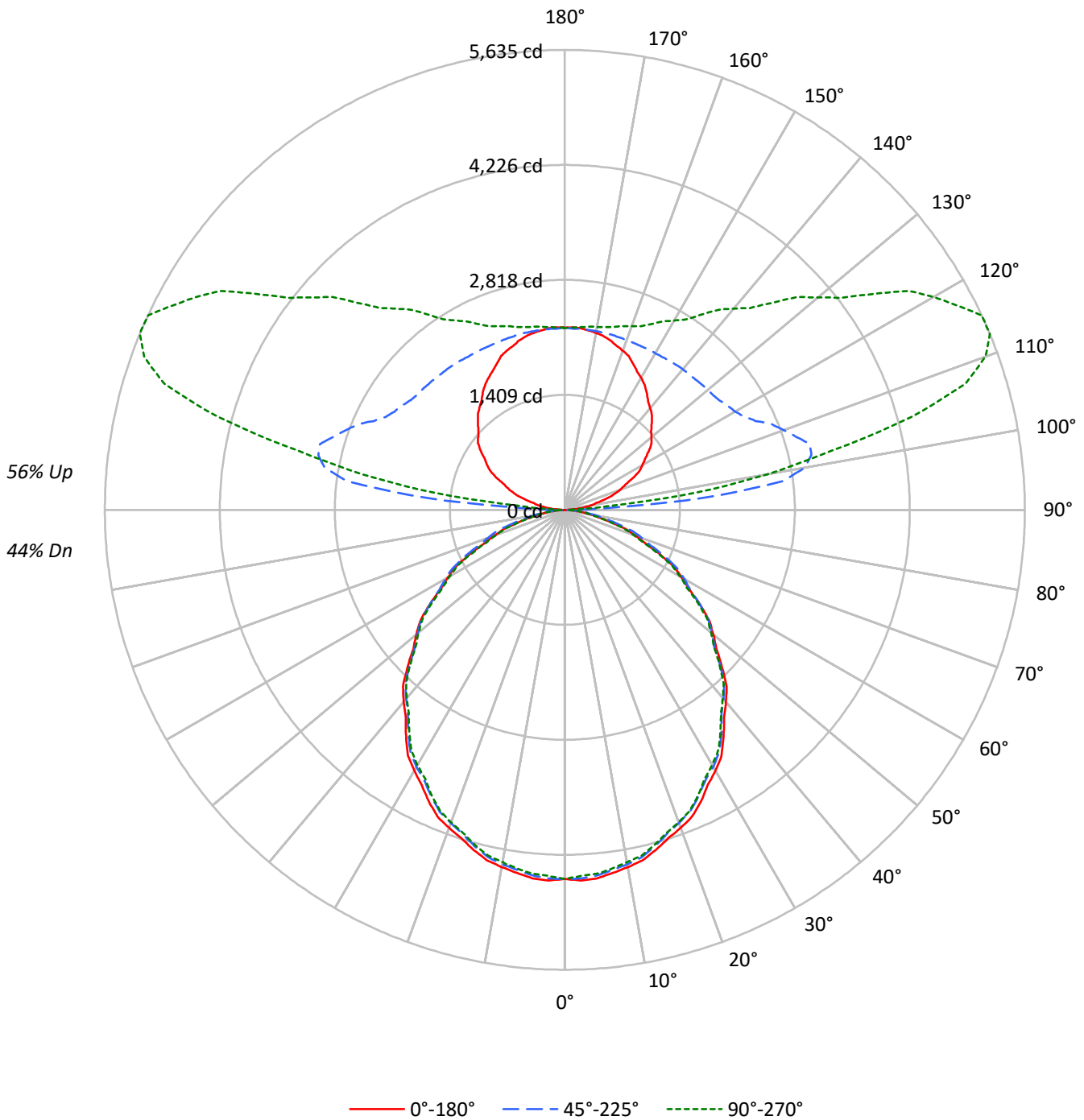
Input Watts (W): 256.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	92	89	85	88	85	82	79	70	68	66	57	56	54	45	44	43	38
2	88	81	75	70	80	74	69	65	62	58	55	50	48	45	40	38	37	32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	35	33	31	27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	62	52	45	39	43	38	34	36	32	29	29	26	23	20
6	62	50	42	36	57	46	39	34	39	34	30	32	28	25	26	23	21	18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	21	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	50	37	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15	13
10	46	34	27	22	42	32	25	21	27	22	19	23	19	16	19	16	13	11

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	13904	13904	13904
5°	13994	13884	13822
10°	13882	13770	13696
15°	13735	13583	13532
20°	13571	13362	13337
25°	13382	13138	13098
30°	13099	12901	12816
35°	12727	12547	12472
40°	12330	12138	12090
45°	11850	11694	11642
50°	11359	11264	11187
55°	10829	10829	10658
60°	10168	10364	9996
65°	9305	9769	9073
70°	8202	8990	7987
75°	7005	8047	6816
80°	5432	6773	5503
85°	3515	5201	4640



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	425.7	1.6
10°-20°	1202.0	4.6
20°-30°	1782.9	6.9
30°-40°	2086.2	8.1
40°-50°	2076.9	8.0
50°-60°	1793.5	6.9
60°-70°	1291.0	5.0
70°-80°	677.0	2.6
80°-90°	172.5	0.7
90°-100°	1036.6	4.0
100°-110°	2802.7	10.8
110°-120°	2946.7	11.4
120°-130°	2393.5	9.2
130°-140°	1877.5	7.3
140°-150°	1441.0	5.6
150°-160°	1036.3	4.0
160°-170°	633.1	2.4
170°-180°	213.4	0.8
0°-30°	3410.6	13.2
0°-40°	5496.8	21.2
0°-60°	9367.1	36.2
0°-90°	11507.5	44.5
90°-120°	6786.0	26.2
90°-150°	12497.9	48.3
90°-180°	14381.0	55.6
0°-180°	25888.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4521	4521	4521	4521	4521	
5°	4533	4482	4497	4485	4477	429
15°	4314	4259	4266	4258	4250	1216
25°	3944	3877	3872	3848	3860	1813
35°	3390	3343	3342	3310	3322	2119
45°	2725	2701	2689	2681	2677	2102
55°	2020	2016	2020	1992	1988	1802
65°	1279	1318	1342	1290	1247	1267
75°	590	644	677	632	574	632
85°	100	131	147	139	132	131
90°	5	14	31	34	31	14
95°	161	565	1724	892	531	168
105°	521	805	3109	4586	4398	549
115°	917	1121	2579	4992	5635	906
125°	1256	1439	2324	3922	4607	1119
135°	1505	1684	2262	3167	3585	1163
145°	1750	1882	2230	2711	2917	1095
155°	1976	2054	2211	2432	2511	911
165°	2151	2172	2221	2308	2319	606
175°	2233	2230	2223	2252	2247	212
180°	2230	2230	2230	2230	2230	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4521.1	4521.1	4521.1	4521.1	4521.1
2.5°	4546.6	4509.2	4521.1	4511.0	4489.2
5°	4533.0	4482.4	4497.2	4485.1	4477.3
7.5°	4486.8	4440.1	4451.0	4438.1	4433.5
10°	4445.4	4398.7	4409.6	4393.4	4385.7
12.5°	4397.6	4347.8	4358.6	4342.5	4337.9
15°	4314.0	4259.4	4266.2	4258.0	4250.2
17.5°	4216.8	4161.5	4162.6	4149.8	4148.3
20°	4146.7	4088.2	4082.9	4067.2	4075.0
22.5°	4070.2	4008.6	4003.3	3981.2	3992.1
25°	3943.5	3877.3	3871.8	3848.2	3859.9
27.5°	3796.9	3731.5	3731.6	3698.4	3710.9
30°	3688.6	3626.3	3632.8	3593.3	3608.9
32.5°	3573.9	3517.8	3521.3	3481.8	3497.4
35°	3389.8	3343.1	3342.0	3310.4	3322.1
37.5°	3201.8	3160.5	3154.0	3135.8	3138.9
40°	3071.2	3036.1	3023.4	3011.4	3011.4
42.5°	2934.1	2902.2	2889.5	2880.7	2877.6
45°	2724.6	2701.2	2688.8	2680.7	2676.8
47.5°	2517.5	2495.7	2484.8	2479.1	2475.2
50°	2374.1	2358.5	2354.2	2342.1	2338.2
52.5°	2230.7	2221.3	2217.1	2201.9	2198.0
55°	2019.6	2015.7	2019.6	1991.6	1987.7
57.5°	1799.7	1805.9	1818.8	1781.1	1771.8
60°	1653.1	1668.7	1685.0	1640.8	1625.2
62.5°	1503.3	1528.2	1551.1	1500.4	1478.6
65°	1278.7	1317.6	1342.4	1289.6	1246.8
67.5°	1062.0	1110.3	1140.0	1083.2	1034.9
70°	912.2	966.7	999.8	942.8	888.3
72.5°	781.5	842.3	869.2	815.3	760.8
75°	589.5	644.1	677.2	632.0	573.6
77.5°	418.3	469.7	497.1	457.8	409.5
80°	306.7	361.2	382.4	349.6	310.7
82.5°	217.5	262.7	277.2	257.5	231.0
85°	99.6	130.7	147.4	139.2	131.5
87.5°	26.5	50.1	66.8	67.3	70.0
90°	4.8	14.2	31.2	33.6	31.2
92.5°	68.2	248.5	490.3	212.8	154.1
95°	160.9	564.7	1723.9	892.1	530.6
97.5°	258.3	647.6	2687.1	2223.8	1633.1
100°	331.3	681.1	2986.8	3114.9	2518.6
102.5°	398.6	727.7	3092.4	3790.6	3344.5
105°	521.0	805.1	3109.2	4586.4	4398.5
107.5°	634.3	893.5	2973.3	5082.8	5145.2
110°	722.7	957.4	2852.3	5216.1	5481.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	801.4	1021.2	2740.9	5189.5	5635.0
115°	917.2	1121.4	2578.6	4991.8	5635.0
117.5°	1030.5	1222.1	2471.5	4689.8	5419.0
120°	1099.6	1287.4	2408.2	4473.1	5217.3
122.5°	1164.9	1349.0	2369.7	4240.8	4990.6
125°	1255.7	1438.8	2324.1	3921.9	4607.4
127.5°	1339.3	1519.1	2297.2	3661.7	4264.6
130°	1385.4	1570.8	2285.7	3501.0	4045.6
132.5°	1433.4	1617.0	2274.2	3355.9	3857.4
135°	1505.4	1683.8	2261.7	3166.8	3584.6
137.5°	1577.9	1746.5	2251.1	3013.2	3353.7
140°	1627.8	1785.1	2247.3	2914.4	3217.3
142.5°	1675.9	1823.8	2239.6	2825.2	3090.5
145°	1750.3	1881.8	2230.5	2710.6	2917.2
147.5°	1818.0	1934.4	2219.9	2606.7	2765.4
150°	1867.9	1971.2	2216.1	2550.3	2677.1
152.5°	1914.0	2004.2	2214.2	2497.9	2602.2
155°	1976.0	2053.5	2211.3	2431.6	2511.4
157.5°	2040.3	2094.3	2211.8	2385.3	2437.9
160°	2076.8	2121.4	2213.7	2356.2	2393.8
162.5°	2105.6	2142.7	2215.6	2332.9	2361.1
165°	2151.3	2172.4	2220.9	2307.6	2319.3
167.5°	2182.5	2197.0	2221.4	2285.8	2291.5
170°	2201.7	2208.7	2223.3	2276.1	2276.1
172.5°	2217.0	2218.4	2223.3	2264.5	2262.7
175°	2232.9	2230.5	2223.3	2252.0	2247.3
177.5°	2238.2	2232.5	2222.8	2241.9	2236.2
180°	2230.5	2230.5	2230.5	2230.5	2230.5

(END OF REPORT)