

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: P564509

Luminaire Tested: **SQ4-PR1-150U-125D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564509  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-150U-125D-930-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

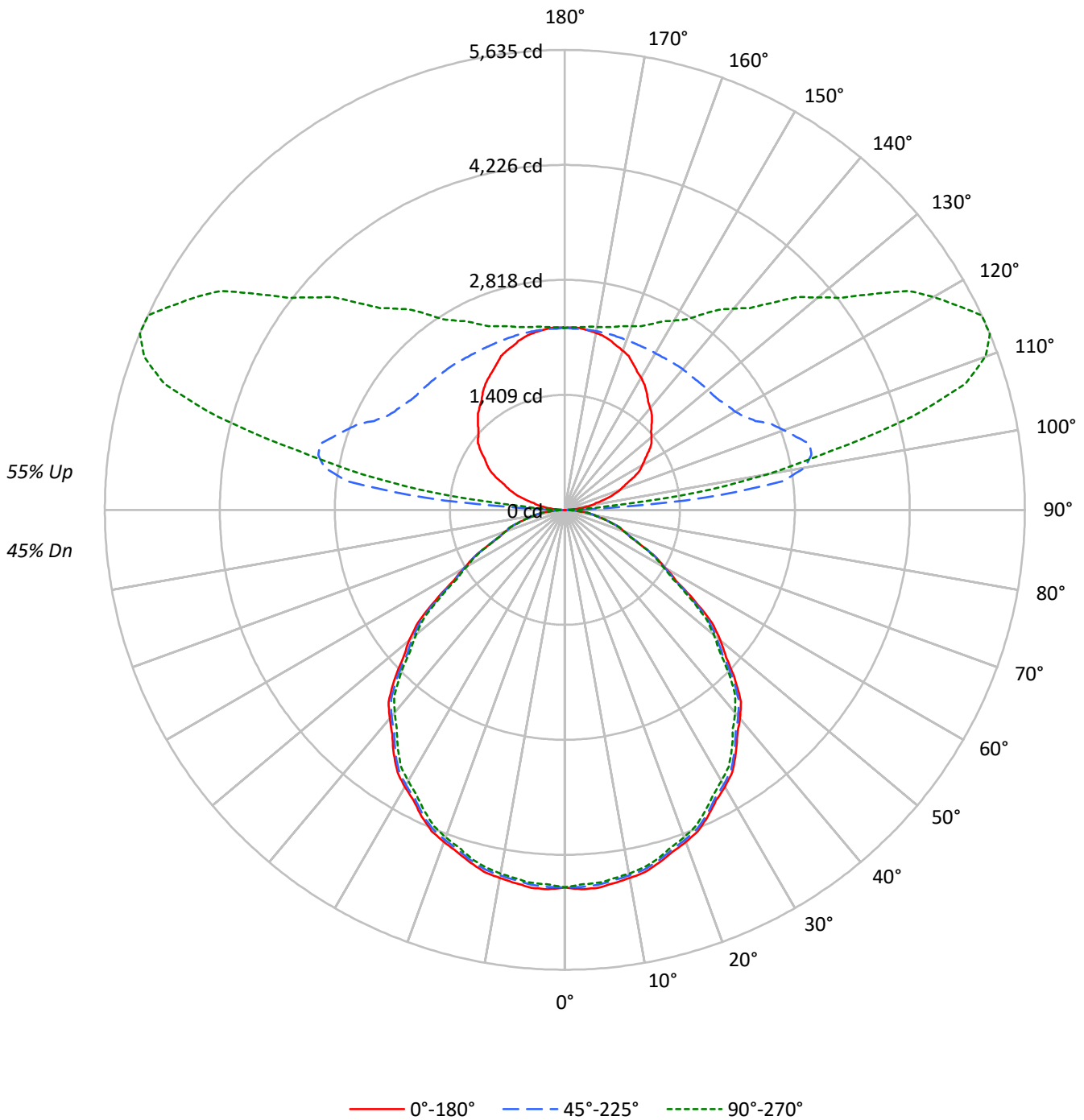
Lumens per Lamp: N/A  
Luminaire Lumens: 25946.5 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

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	50	30	10	0	
RCR																						
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45				
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38				
2	88	81	75	70	81	75	69	65	62	59	55	51	48	46	40	39	37	32				
3	81	72	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28				
4	74	63	56	50	68	58	52	47	49	44	40	40	37	34	32	30	28	24				
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	29	26	24	21				
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21	18				
7	58	46	38	33	53	42	35	31	36	31	27	30	26	23	24	21	19	16				
8	54	42	34	29	49	39	32	27	33	27	24	27	23	20	22	19	17	15				
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	15	13				
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12				

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

	0°	45°	90°
0°	14222	14222	14222
5°	14351	14240	14166
10°	14305	14206	14131
15°	14242	14154	14078
20°	14171	14079	13975
25°	14071	13976	13814
30°	13919	13820	13622
35°	13714	13594	13400
40°	13401	13257	13017
45°	12855	12629	12370
50°	11892	11606	11377
55°	10380	10145	9931
60°	8746	8673	8502
65°	7565	7594	7537
70°	6949	6984	6984
75°	6673	6673	6721
80°	6278	6349	6278
85°	5060	5621	5621



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	437.3	1.7
10°-20°	1251.2	4.8
20°-30°	1887.3	7.3
30°-40°	2248.7	8.7
40°-50°	2217.0	8.5
50°-60°	1694.3	6.5
60°-70°	1048.5	4.0
70°-80°	595.5	2.3
80°-90°	185.8	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	7.2
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°	3575.8	13.8
0°-40°	5824.5	22.4
0°-60°	9735.9	37.5
0°-90°	11565.7	44.6
90°-120°	6786.0	26.2
90°-150°	12497.9	48.2
90°-180°	14381.0	55.4
0°-180°	25946.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4625	4625	4625	4625	4625	
5°	4648	4598	4613	4597	4589	441
15°	4473	4426	4445	4429	4422	1262
25°	4147	4096	4119	4075	4071	1908
35°	3653	3610	3621	3573	3569	2280
45°	2956	2917	2904	2852	2844	2264
55°	1936	1905	1892	1860	1852	1735
65°	1040	1032	1044	1036	1036	1053
75°	562	562	562	566	566	593
85°	143	151	159	159	159	167
90°	5	14	31	34	31	16
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°	4624.6	4624.6	4624.6	4624.6	4624.6
2.5°	4653.3	4612.8	4624.6	4614.6	4592.8
5°	4648.5	4597.9	4612.7	4596.6	4588.8
7.5°	4612.7	4562.8	4577.6	4561.6	4556.9
10°	4580.8	4534.1	4549.0	4532.9	4525.1
12.5°	4545.8	4495.9	4513.9	4494.6	4486.8
15°	4473.3	4426.5	4445.4	4429.3	4421.5
17.5°	4393.6	4343.8	4362.5	4344.0	4333.9
20°	4329.9	4283.1	4302.0	4274.0	4270.1
22.5°	4259.8	4213.0	4231.9	4194.4	4193.6
25°	4146.6	4096.0	4118.8	4074.9	4071.0
27.5°	4012.0	3965.3	3984.1	3939.4	3934.7
30°	3919.6	3872.9	3891.7	3843.7	3835.9
32.5°	3814.4	3770.8	3786.6	3738.6	3734.0
35°	3652.7	3609.9	3620.8	3573.0	3569.1
37.5°	3468.7	3429.7	3436.0	3383.4	3379.5
40°	3338.0	3299.1	3302.2	3246.3	3242.4
42.5°	3194.6	3155.7	3152.4	3096.6	3092.7
45°	2955.6	2916.7	2903.8	2851.9	2844.1
47.5°	2683.2	2644.2	2620.2	2577.9	2572.4
50°	2485.6	2446.6	2425.8	2389.7	2378.0
52.5°	2272.1	2233.1	2215.5	2182.6	2170.9
55°	1935.9	1904.7	1892.1	1860.0	1852.2
57.5°	1616.4	1595.4	1591.7	1560.6	1557.5
60°	1422.0	1410.4	1410.1	1382.2	1382.2
62.5°	1256.3	1247.8	1254.0	1235.6	1232.4
65°	1039.6	1031.9	1043.6	1035.7	1035.7
67.5°	868.4	868.4	875.5	872.3	872.3
70°	772.8	772.8	776.7	776.7	776.7
72.5°	686.7	683.6	693.9	693.8	690.7
75°	561.6	561.6	561.6	565.6	565.6
77.5°	437.4	438.1	441.4	440.5	437.4
80°	354.5	358.4	358.5	354.5	354.5
82.5°	271.7	275.6	275.6	274.8	271.7
85°	143.4	151.2	159.3	159.3	159.3
87.5°	42.4	56.7	70.0	70.4	66.8
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)