

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: P519527

Luminaire Tested: **SQ4-WB-125U-125D-835-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519527  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2009-966-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-125U-125D-835-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

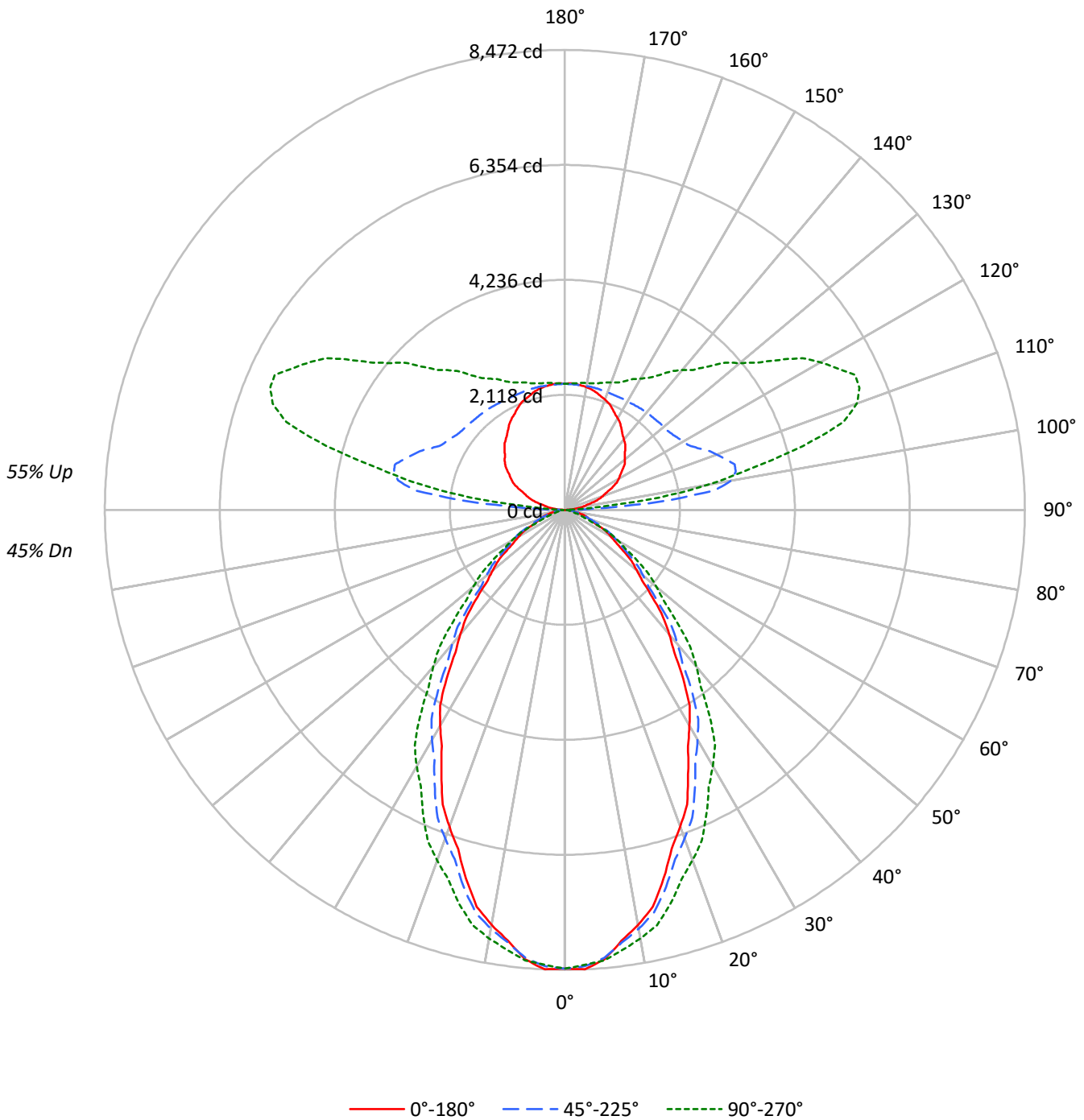
Lumens per Lamp: N/A  
Luminaire Lumens: 27318.3 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52	45
1	98	94	90	87	90	86	83	81	72	70	68	59	58	57	47	46	46	40
2	90	83	78	73	82	77	72	68	64	61	58	53	51	49	43	41	40	35
3	83	74	67	62	76	68	63	58	58	54	50	48	45	43	39	37	35	31
4	76	66	59	54	70	61	55	50	52	47	44	44	40	38	36	33	31	28
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25
6	65	54	46	41	60	50	44	39	43	38	34	36	33	30	30	27	25	23
7	61	49	42	36	56	46	39	34	39	34	31	33	30	27	28	25	23	20
8	56	45	38	33	52	42	35	31	36	31	28	31	27	24	26	23	21	19
9	53	41	34	29	49	39	32	28	33	28	25	29	25	22	24	21	19	17
10	49	38	31	27	46	36	29	25	31	26	23	27	23	20	22	20	18	16

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

	0°	45°	90°
0°	25991	25991	25991
5°	25666	25575	25724
10°	24249	24469	25037
15°	22386	22905	23932
20°	20328	21093	22489
25°	18233	19227	20951
30°	16303	17369	19358
35°	14256	15287	17472
40°	11999	12952	15126
45°	9903	10757	12629
50°	8268	9013	10521
55°	7019	7734	8689
60°	5999	6706	6934
65°	4777	5640	4480
70°	4234	4402	2734
75°	3921	3569	1674
80°	3613	3284	1445
85°	3271	3010	1179



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	775.2	2.8
10°-20°	2016.2	7.4
20°-30°	2611.6	9.6
30°-40°	2557.4	9.4
40°-50°	1957.6	7.2
50°-60°	1304.4	4.8
60°-70°	711.8	2.6
70°-80°	296.6	1.1
80°-90°	89.4	0.3
90°-100°	1086.8	4.0
100°-110°	2927.6	10.7
110°-120°	3072.5	11.2
120°-130°	2493.2	9.1
130°-140°	1955.4	7.2
140°-150°	1501.2	5.5
150°-160°	1079.4	4.0
160°-170°	659.4	2.4
170°-180°	222.4	0.8
0°-30°	5403.0	19.8
0°-40°	7960.5	29.1
0°-60°	11222.5	41.1
0°-90°	12320.3	45.1
90°-120°	7086.9	25.9
90°-150°	13036.8	47.7
90°-180°	14998.0	54.9
0°-180°	27318.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8451	8451	8451	8451	8451	
5°	8314	8230	8284	8304	8332	773
15°	7031	7006	7194	7390	7517	1963
25°	5373	5388	5666	5913	6174	2471
35°	3797	3815	4072	4346	4654	2361
45°	2277	2320	2473	2661	2904	1776
55°	1309	1363	1442	1497	1620	1187
65°	656	711	775	677	616	682
75°	330	330	300	206	141	352
85°	93	93	85	55	33	101
90°	6	18	36	38	38	16
95°	166	591	1782	911	630	173
105°	542	843	3238	4844	4546	569
115°	956	1170	2696	5210	5892	941
125°	1305	1499	2421	4092	4815	1165
135°	1572	1754	2353	3301	3738	1213
145°	1817	1959	2323	2822	3031	1140
155°	2063	2138	2302	2532	2613	950
165°	2237	2264	2311	2403	2415	631
175°	2326	2323	2314	2347	2341	221
180°	2323	2323	2323	2323	2323	

TEST NUMBER: P519527

CATALOG NUMBER: SQ4-WB-125U-125D-835-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8451.1	8451.1	8451.1	8451.1	8451.1
2.5°	8471.9	8396.5	8415.5	8415.0	8391.8
5°	8313.9	8230.5	8284.3	8303.5	8332.5
7.5°	8005.4	7942.3	8040.3	8112.8	8171.5
10°	7765.1	7710.7	7835.6	7941.1	8017.3
12.5°	7486.2	7440.6	7595.3	7737.0	7836.3
15°	7030.9	7005.5	7194.0	7389.8	7516.7
17.5°	6543.6	6531.3	6747.6	6976.0	7138.4
20°	6211.3	6207.7	6445.0	6682.9	6871.4
22.5°	5876.1	5884.1	6133.5	6380.9	6595.5
25°	5373.3	5387.8	5666.2	5913.2	6174.3
27.5°	4908.3	4914.8	5202.7	5463.4	5741.9
30°	4590.8	4609.0	4891.2	5161.1	5451.2
32.5°	4273.4	4294.4	4570.8	4849.7	5145.6
35°	3797.3	3815.4	4071.7	4345.7	4653.9
37.5°	3306.3	3330.9	3558.5	3817.5	4120.6
40°	2988.9	3025.1	3226.2	3470.3	3767.6
42.5°	2683.3	2728.3	2914.7	3146.3	3414.6
45°	2276.9	2320.4	2473.4	2660.6	2903.6
47.5°	1926.8	1976.9	2094.4	2255.6	2463.0
50°	1728.1	1775.2	1883.8	2003.2	2199.0
52.5°	1553.0	1600.2	1696.9	1789.0	1955.7
55°	1309.0	1363.4	1442.5	1497.2	1620.5
57.5°	1108.8	1161.0	1223.7	1248.4	1323.1
60°	975.3	1033.3	1090.2	1087.4	1127.3
62.5°	853.6	903.0	959.7	920.4	922.6
65°	656.4	710.8	775.0	677.2	615.6
67.5°	530.3	541.9	608.2	472.3	399.0
70°	470.9	470.9	489.5	365.7	304.1
72.5°	414.6	414.6	397.5	297.4	232.9
75°	330.0	330.0	300.4	206.2	140.9
77.5°	254.4	251.5	229.9	153.8	102.3
80°	204.0	204.0	185.4	121.5	81.6
82.5°	159.5	159.5	143.9	94.9	60.8
85°	92.7	92.7	85.3	55.1	33.4
87.5°	33.8	36.1	36.8	25.4	22.5
90°	5.9	17.5	35.5	38.5	38.5
92.5°	72.2	255.1	504.3	242.8	168.7
95°	165.7	591.1	1781.7	911.1	630.4
97.5°	264.6	676.7	2794.4	2334.5	1760.3
100°	340.3	710.8	3116.4	3260.6	2705.0
102.5°	413.7	758.7	3223.0	3954.3	3498.2
105°	541.6	842.6	3237.8	4843.9	4545.9
107.5°	662.3	930.9	3099.8	5301.1	5378.1
110°	742.8	997.5	2974.4	5443.1	5723.8

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CATALOG NUMBER: SQ4-WB-125U-125D-835-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	828.1	1064.2	2853.6	5411.7	5873.0
115°	955.9	1170.1	2696.2	5209.5	5892.5
117.5°	1072.5	1273.4	2574.2	4886.9	5647.4
120°	1148.3	1342.2	2512.7	4655.4	5436.7
122.5°	1214.6	1406.2	2467.7	4418.6	5197.6
125°	1305.2	1499.1	2420.9	4091.8	4815.2
127.5°	1392.2	1583.2	2391.3	3803.5	4449.4
130°	1444.3	1635.3	2379.5	3638.4	4205.5
132.5°	1496.4	1685.0	2367.6	3492.9	4013.8
135°	1571.5	1753.8	2352.9	3301.0	3737.9
137.5°	1643.1	1817.9	2345.2	3138.2	3497.0
140°	1692.9	1860.7	2338.1	3038.0	3362.1
142.5°	1745.0	1901.2	2333.3	2944.5	3217.6
145°	1817.2	1959.0	2323.3	2822.2	3030.6
147.5°	1895.3	2018.6	2313.2	2719.4	2883.2
150°	1947.4	2054.5	2308.5	2654.9	2790.9
152.5°	1994.7	2087.9	2306.1	2602.2	2712.7
155°	2062.8	2138.1	2302.5	2532.3	2613.3
157.5°	2122.6	2181.1	2303.1	2483.1	2537.5
160°	2160.5	2209.7	2305.5	2454.4	2494.9
162.5°	2193.6	2233.6	2307.9	2430.5	2459.4
165°	2237.4	2263.5	2311.4	2403.4	2415.0
167.5°	2272.9	2288.0	2314.4	2382.6	2387.2
170°	2296.6	2302.4	2314.4	2370.6	2370.6
172.5°	2310.8	2312.0	2316.7	2358.8	2358.8
175°	2326.2	2323.3	2314.4	2346.8	2341.0
177.5°	2332.7	2328.1	2316.2	2335.0	2330.4
180°	2323.3	2323.3	2323.3	2323.3	2323.3

(END OF REPORT)