

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: P519475

Luminaire Tested: **SQ4-WB-125U-075D-830-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519475  
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-075D-830-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

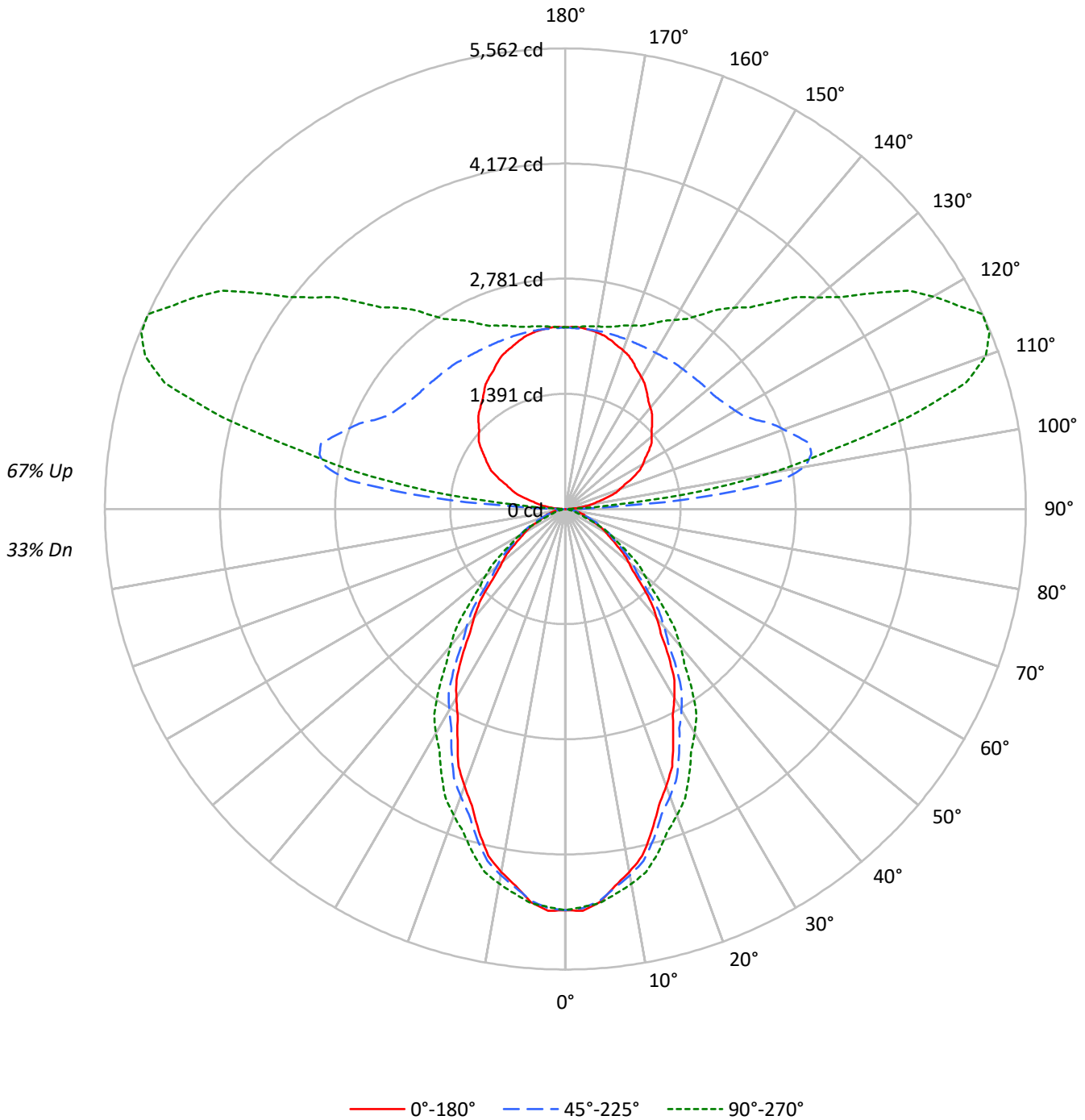
Lumens per Lamp: N/A  
Luminaire Lumens: 21222.1 lumens  
Efficiency: N/A  
Efficacy: 123.1 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 172.4  
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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33
1	95	91	87	84	85	82	79	77	66	64	62	51	50	49	37	36	36	30
2	87	80	75	70	78	73	68	64	59	55	53	46	44	42	34	32	31	26
3	80	71	65	59	72	65	59	54	52	48	45	41	38	36	31	29	28	23
4	73	63	56	51	66	58	52	47	47	43	39	37	34	32	28	26	25	21
5	68	57	49	44	61	52	45	41	42	38	34	34	31	28	26	24	22	18
6	62	51	44	38	56	47	40	36	39	34	30	31	27	25	23	21	20	17
7	58	46	39	34	52	43	36	32	35	30	27	28	25	22	22	19	18	15
8	54	42	35	30	49	39	33	28	32	27	24	26	23	20	20	18	16	14
9	50	39	32	27	45	36	29	25	30	25	22	24	21	18	19	16	15	13
10	47	36	29	24	43	33	27	23	27	23	20	22	19	17	17	15	14	12

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

	0°	45°	90°
0°	14901	14901	14901
5°	14716	14663	14748
10°	13903	14029	14354
15°	12834	13132	13721
20°	11655	12093	12893
25°	10454	11024	12012
30°	9347	9959	11098
35°	8174	8764	10017
40°	6880	7426	8672
45°	5678	6168	7240
50°	4740	5167	6032
55°	4024	4434	4982
60°	3440	3845	3975
65°	2738	3233	2568
70°	2428	2523	1567
75°	2248	2046	960
80°	2070	1883	829
85°	1877	1725	674



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	444.4	2.1
10°-20°	1156.0	5.4
20°-30°	1497.3	7.1
30°-40°	1466.3	6.9
40°-50°	1122.3	5.3
50°-60°	747.9	3.5
60°-70°	408.1	1.9
70°-80°	170.0	0.8
80°-90°	53.3	0.3
90°-100°	1025.9	4.8
100°-110°	2763.4	13.0
110°-120°	2900.1	13.7
120°-130°	2353.3	11.1
130°-140°	1845.6	8.7
140°-150°	1417.0	6.7
150°-160°	1018.8	4.8
160°-170°	622.4	2.9
170°-180°	209.9	1.0
0°-30°	3097.7	14.6
0°-40°	4564.0	21.5
0°-60°	6434.2	30.3
0°-90°	7065.7	33.3
90°-120°	6689.3	31.5
90°-150°	12305.3	58.0
90°-180°	14156.0	66.7
0°-180°	21222.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4845	4845	4845	4845	4845	
5°	4767	4719	4750	4761	4777	443
15°	4031	4016	4125	4237	4310	1126
25°	3081	3089	3249	3390	3540	1417
35°	2177	2188	2334	2492	2668	1353
45°	1305	1330	1418	1525	1665	1018
55°	750	782	827	858	929	680
65°	376	408	444	388	353	391
75°	189	189	172	118	81	202
85°	53	53	49	32	19	58
90°	6	16	34	36	36	14
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°	4845.3	4845.3	4845.3	4845.3	4845.3
2.5°	4857.2	4814.0	4824.9	4824.6	4811.3
5°	4766.7	4718.8	4749.7	4760.7	4777.3
7.5°	4589.8	4553.6	4609.8	4651.3	4685.0
10°	4452.0	4420.8	4492.4	4552.9	4596.6
12.5°	4292.1	4265.9	4354.6	4435.9	4492.8
15°	4031.0	4016.5	4124.6	4236.8	4309.6
17.5°	3751.7	3744.6	3868.6	3999.6	4092.7
20°	3561.2	3559.1	3695.1	3831.5	3939.6
22.5°	3369.0	3373.6	3516.5	3658.4	3781.4
25°	3080.7	3089.0	3248.6	3390.2	3539.9
27.5°	2814.1	2817.8	2982.9	3132.4	3292.0
30°	2632.1	2642.5	2804.3	2959.0	3125.3
32.5°	2450.1	2462.1	2620.6	2780.5	2950.1
35°	2177.1	2187.5	2334.4	2491.5	2668.2
37.5°	1895.6	1909.7	2040.2	2188.7	2362.5
40°	1713.6	1734.4	1849.7	1989.6	2160.1
42.5°	1538.4	1564.2	1671.1	1803.9	1957.7
45°	1305.4	1330.4	1418.1	1525.4	1664.7
47.5°	1104.7	1133.4	1200.8	1293.2	1412.1
50°	990.8	1017.8	1080.0	1148.5	1260.8
52.5°	890.4	917.4	972.9	1025.7	1121.3
55°	750.5	781.7	827.0	858.4	929.1
57.5°	635.7	665.6	701.6	715.8	758.6
60°	559.2	592.4	625.1	623.5	646.3
62.5°	489.4	517.7	550.2	527.7	529.0
65°	376.3	407.5	444.3	388.3	352.9
67.5°	304.0	310.7	348.7	270.8	228.8
70°	270.0	270.0	280.6	209.7	174.3
72.5°	237.7	237.7	227.9	170.5	133.5
75°	189.2	189.2	172.2	118.2	80.8
77.5°	145.8	144.2	131.8	88.2	58.7
80°	116.9	116.9	106.3	69.6	46.8
82.5°	91.4	91.4	82.5	54.4	34.9
85°	53.2	53.2	48.9	31.6	19.1
87.5°	19.8	22.0	23.7	17.4	15.8
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)