

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: P519635

Luminaire Tested: **SQ4-WB-150U-125D-935-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519635
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-150U-125D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

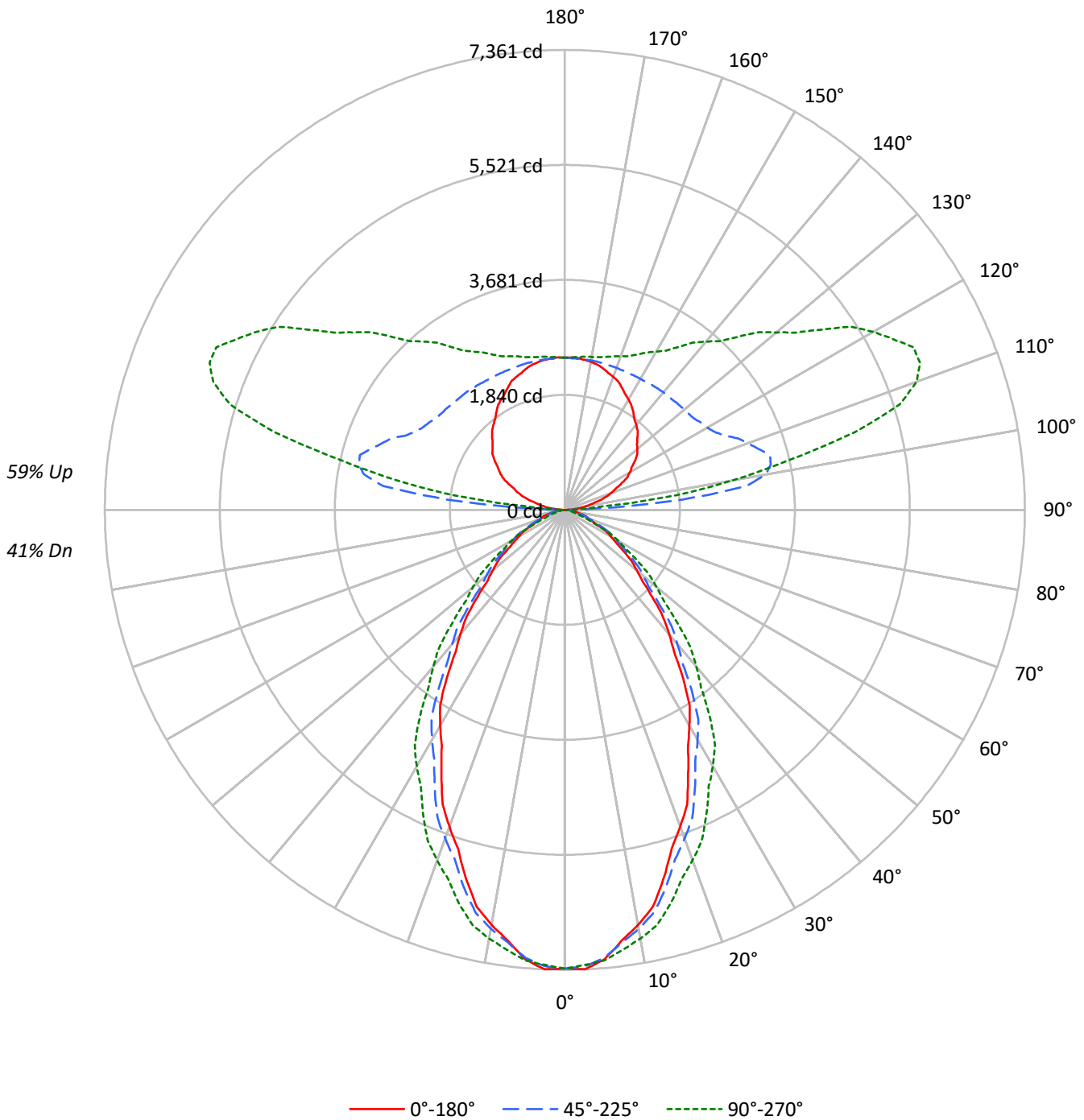
Lumens per Lamp: N/A
Luminaire Lumens: 26407.9 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	41
1	97	93	89	86	88	85	82	79	70	68	66	56	55	53	43	43	42	36
2	89	82	76	72	81	75	70	66	62	59	56	50	48	46	39	38	37	32
3	82	73	66	61	74	67	61	57	56	52	48	45	43	40	36	34	32	28
4	75	65	58	52	68	60	54	49	50	46	42	41	38	35	33	31	29	25
5	69	59	51	46	63	54	48	43	45	41	37	37	34	31	30	28	26	22
6	64	53	45	40	59	49	42	38	41	36	33	34	31	28	28	25	23	20
7	59	48	41	35	54	45	38	33	38	33	29	31	28	25	25	23	21	18
8	55	44	37	32	51	41	34	30	35	30	26	29	25	23	24	21	19	17
9	52	40	33	28	47	37	31	27	32	27	24	27	23	21	22	19	18	15
10	48	37	30	26	44	34	28	24	30	25	22	25	21	19	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22583	22583	22583
5°	22301	22222	22351
10°	21070	21261	21754
15°	19451	19902	20795
20°	17663	18328	19540
25°	15843	16706	18205
30°	14165	15092	16820
35°	12387	13283	15182
40°	10426	11254	13142
45°	8605	9347	10973
50°	7184	7831	9142
55°	6099	6720	7550
60°	5212	5827	6025
65°	4150	4900	3892
70°	3679	3824	2376
75°	3408	3101	1454
80°	3138	2853	1256
85°	2844	2615	1023



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	673.5	2.6
10°-20°	1751.9	6.6
20°-30°	2269.2	8.6
30°-40°	2222.1	8.4
40°-50°	1700.9	6.4
50°-60°	1133.4	4.3
60°-70°	618.5	2.3
70°-80°	257.7	1.0
80°-90°	78.1	0.3
90°-100°	1131.9	4.3
100°-110°	3060.3	11.6
110°-120°	3217.5	12.2
120°-130°	2613.5	9.9
130°-140°	2050.0	7.8
140°-150°	1573.4	6.0
150°-160°	1131.6	4.3
160°-170°	691.3	2.6
170°-180°	233.1	0.9
0°-30°	4694.7	17.8
0°-40°	6916.8	26.2
0°-60°	9751.1	36.9
0°-90°	10705.4	40.5
90°-120°	7409.7	28.1
90°-150°	13646.6	51.7
90°-180°	15703.0	59.5
0°-180°	26407.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7343	7343	7343	7343	7343	
5°	7224	7152	7198	7215	7240	672
15°	6109	6087	6251	6421	6531	1706
25°	4669	4681	4923	5138	5365	2147
35°	3299	3315	3538	3776	4044	2051
45°	1978	2016	2149	2312	2523	1543
55°	1137	1185	1253	1301	1408	1031
65°	570	618	673	588	535	593
75°	287	287	261	179	122	306
85°	81	81	74	48	29	88
90°	5	16	34	37	34	16
95°	176	616	1882	974	579	184
105°	569	879	3395	5008	4803	599
115°	1002	1224	2816	5451	6153	989
125°	1371	1571	2538	4282	5031	1222
135°	1644	1839	2470	3458	3914	1270
145°	1911	2055	2436	2960	3185	1196
155°	2158	2242	2414	2655	2742	995
165°	2349	2372	2425	2520	2532	662
175°	2438	2436	2428	2459	2454	231
180°	2436	2436	2436	2436	2436	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7343.1	7343.1	7343.1	7343.1	7343.1
2.5°	7361.2	7295.6	7312.2	7311.7	7291.6
5°	7223.9	7151.5	7198.1	7214.8	7240.0
7.5°	6955.8	6901.0	6986.1	7049.2	7100.2
10°	6747.0	6699.8	6808.3	6900.0	6966.2
12.5°	6504.7	6465.1	6599.5	6722.6	6808.9
15°	6109.1	6087.0	6250.8	6420.9	6531.2
17.5°	5685.7	5675.0	5862.9	6061.4	6202.5
20°	5397.0	5393.8	5600.0	5806.7	5970.5
22.5°	5105.7	5112.6	5329.3	5544.3	5730.8
25°	4668.8	4681.4	4923.3	5137.9	5364.8
27.5°	4264.8	4270.4	4520.6	4747.1	4989.1
30°	3988.9	4004.7	4249.9	4484.4	4736.5
32.5°	3713.1	3731.4	3971.5	4213.9	4471.0
35°	3299.4	3315.2	3537.9	3775.9	4043.7
37.5°	2872.8	2894.2	3091.9	3317.0	3580.4
40°	2597.0	2628.5	2803.2	3015.3	3273.6
42.5°	2331.5	2370.6	2532.6	2733.8	2966.9
45°	1978.4	2016.2	2149.1	2311.8	2522.9
47.5°	1674.2	1717.7	1819.8	1959.9	2140.1
50°	1501.5	1542.4	1636.8	1740.6	1910.7
52.5°	1349.4	1390.4	1474.4	1554.4	1699.3
55°	1137.4	1184.7	1253.4	1300.9	1408.1
57.5°	963.4	1008.8	1063.3	1084.7	1149.6
60°	847.4	897.8	947.3	944.9	979.5
62.5°	741.7	784.6	833.9	799.8	801.7
65°	570.3	617.6	673.4	588.4	534.9
67.5°	460.8	470.8	528.4	410.3	346.7
70°	409.2	409.2	425.3	317.8	264.2
72.5°	360.2	360.2	345.4	258.4	202.3
75°	286.8	286.8	261.0	179.1	122.4
77.5°	221.0	218.5	199.8	133.7	88.9
80°	177.2	177.2	161.1	105.5	70.9
82.5°	138.5	138.5	125.0	82.5	52.8
85°	80.6	80.6	74.1	47.9	29.0
87.5°	29.4	31.5	32.6	22.7	19.7
90°	5.2	15.5	34.1	36.6	34.1
92.5°	74.5	271.3	535.3	232.4	168.3
95°	175.6	616.5	1882.3	974.1	579.4
97.5°	282.1	707.1	2934.1	2428.2	1783.2
100°	361.8	743.7	3261.3	3401.2	2750.1
102.5°	435.2	794.6	3376.7	4139.0	3651.9
105°	568.9	879.1	3395.0	5007.9	4802.8
107.5°	692.6	975.6	3246.6	5550.0	5618.1
110°	789.1	1045.4	3114.5	5695.5	5985.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	875.1	1115.0	2992.8	5666.4	6153.0
115°	1001.5	1224.5	2815.6	5450.6	6153.0
117.5°	1125.2	1334.4	2698.7	5120.8	5917.0
120°	1200.7	1405.8	2629.5	4884.2	5696.8
122.5°	1272.0	1473.0	2587.5	4630.6	5449.3
125°	1371.1	1571.1	2537.7	4282.4	5030.9
127.5°	1462.3	1658.7	2508.4	3998.3	4656.5
130°	1512.7	1715.2	2495.8	3822.7	4417.4
132.5°	1565.1	1765.6	2483.2	3664.4	4211.9
135°	1643.8	1838.6	2469.6	3457.8	3914.1
137.5°	1722.9	1907.0	2458.0	3290.2	3661.9
140°	1777.5	1949.2	2453.8	3182.3	3513.0
142.5°	1829.9	1991.4	2445.5	3084.9	3374.6
145°	1911.2	2054.7	2435.5	2959.7	3185.3
147.5°	1985.1	2112.2	2424.0	2846.3	3019.6
150°	2039.6	2152.4	2419.8	2784.7	2923.1
152.5°	2090.0	2188.4	2417.7	2727.5	2841.3
155°	2157.6	2242.2	2414.5	2655.1	2742.2
157.5°	2227.9	2286.8	2415.0	2604.6	2662.0
160°	2267.7	2316.4	2417.1	2572.7	2613.8
162.5°	2299.2	2339.7	2419.2	2547.3	2578.1
165°	2349.0	2372.0	2425.0	2519.7	2532.5
167.5°	2383.1	2399.0	2425.5	2495.9	2502.1
170°	2404.0	2411.7	2427.6	2485.3	2485.3
172.5°	2420.8	2422.3	2427.6	2472.7	2470.6
175°	2438.1	2435.5	2427.6	2459.0	2453.8
177.5°	2443.9	2437.7	2427.1	2447.9	2441.8
180°	2435.5	2435.5	2435.5	2435.5	2435.5

(END OF REPORT)