

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: P519639

Luminaire Tested: **SQ4-WB-150U-125D-940-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519639
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-940-1D-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

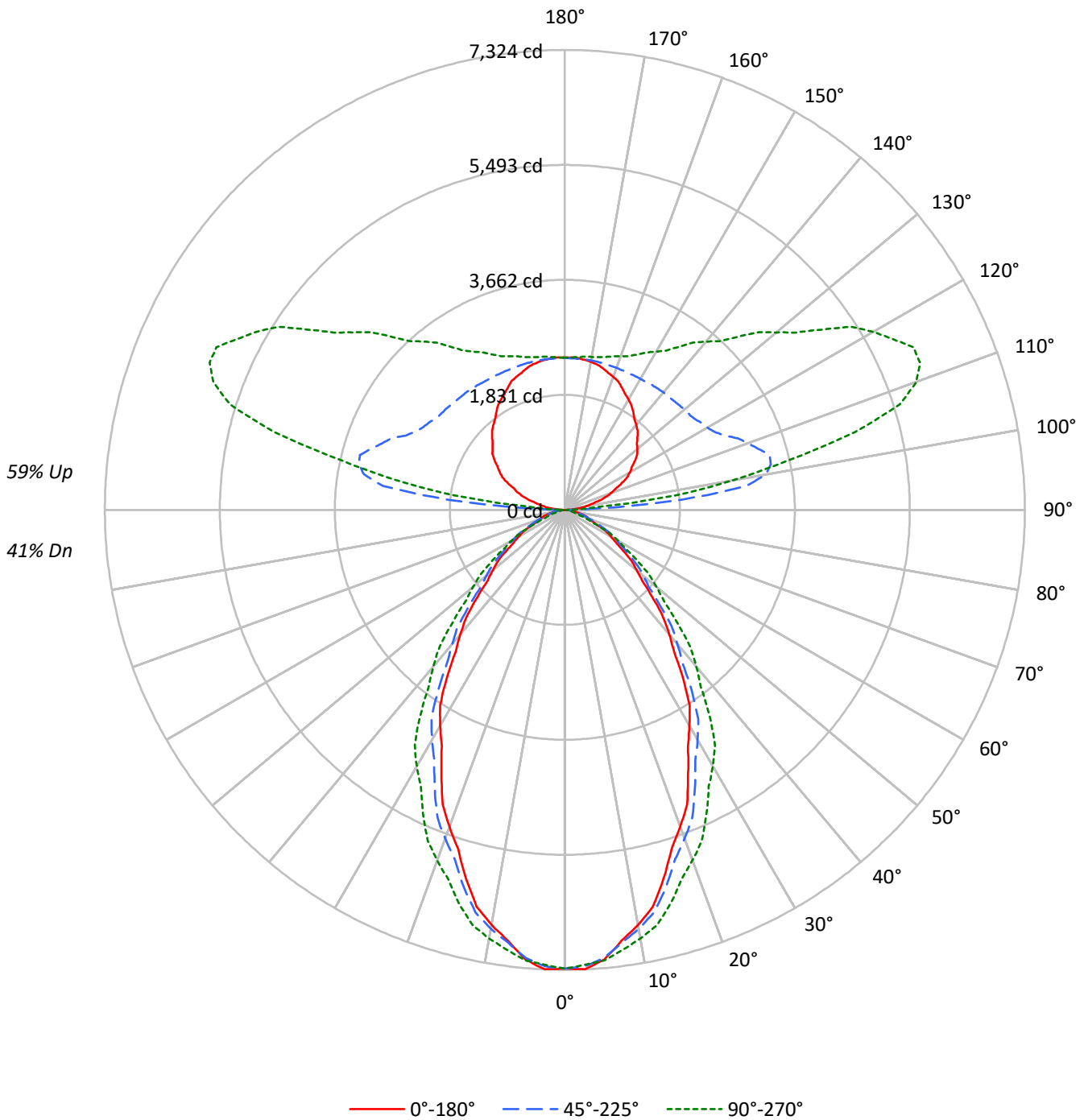
Lumens per Lamp: N/A
Luminaire Lumens: 26273.8 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

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°	22468	22468	22468
5°	22188	22109	22238
10°	20963	21153	21644
15°	19352	19801	20689
20°	17573	18235	19441
25°	15762	16622	18112
30°	14094	15016	16735
35°	12324	13215	15105
40°	10373	11197	13076
45°	8561	9300	10917
50°	7148	7792	9095
55°	6067	6686	7511
60°	5186	5797	5994
65°	4129	4876	3873
70°	3661	3805	2364
75°	3390	3086	1447
80°	3122	2839	1249
85°	2826	2601	1020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.1	2.6
10°-20°	1743.0	6.6
20°-30°	2257.7	8.6
30°-40°	2210.9	8.4
40°-50°	1692.3	6.4
50°-60°	1127.6	4.3
60°-70°	615.3	2.3
70°-80°	256.4	1.0
80°-90°	77.6	0.3
90°-100°	1126.1	4.3
100°-110°	3044.8	11.6
110°-120°	3201.2	12.2
120°-130°	2600.2	9.9
130°-140°	2039.6	7.8
140°-150°	1565.4	6.0
150°-160°	1125.8	4.3
160°-170°	687.8	2.6
170°-180°	231.9	0.9
0°-30°	4670.8	17.8
0°-40°	6881.7	26.2
0°-60°	9701.6	36.9
0°-90°	10651.0	40.5
90°-120°	7372.0	28.1
90°-150°	13577.3	51.7
90°-180°	15623.0	59.5
0°-180°	26273.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7306	7306	7306	7306	7306	
5°	7187	7115	7162	7178	7203	669
15°	6078	6056	6219	6388	6498	1697
25°	4645	4658	4898	5112	5338	2136
35°	3283	3298	3520	3757	4023	2041
45°	1968	2006	2138	2300	2510	1535
55°	1132	1179	1247	1294	1401	1026
65°	567	614	670	585	532	590
75°	285	285	260	178	122	305
85°	80	80	74	48	29	87
90°	5	15	34	36	34	16
95°	175	613	1873	969	576	183
105°	566	875	3378	4982	4778	596
115°	996	1218	2801	5423	6122	984
125°	1364	1563	2525	4261	5005	1216
135°	1635	1829	2457	3440	3894	1264
145°	1902	2044	2423	2945	3169	1190
155°	2147	2231	2402	2642	2728	990
165°	2337	2360	2413	2507	2520	658
175°	2426	2423	2415	2446	2441	230
180°	2423	2423	2423	2423	2423	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7305.8	7305.8	7305.8	7305.8	7305.8
2.5°	7323.8	7258.6	7275.1	7274.6	7254.6
5°	7187.2	7115.1	7161.6	7178.2	7203.3
7.5°	6920.5	6866.0	6950.7	7013.4	7064.1
10°	6712.8	6665.8	6773.7	6865.0	6930.8
12.5°	6471.7	6432.2	6566.0	6688.5	6774.3
15°	6078.1	6056.1	6219.1	6388.3	6498.0
17.5°	5656.8	5646.2	5833.1	6030.6	6171.0
20°	5369.6	5366.5	5571.6	5777.2	5940.2
22.5°	5079.8	5086.7	5302.3	5516.1	5701.7
25°	4645.1	4657.6	4898.3	5111.8	5337.5
27.5°	4243.1	4248.7	4497.6	4723.0	4963.7
30°	3968.7	3984.4	4228.4	4461.7	4712.4
32.5°	3694.3	3712.5	3951.4	4192.5	4448.3
35°	3282.7	3298.3	3519.9	3756.8	4023.2
37.5°	2858.2	2879.5	3076.2	3300.2	3562.2
40°	2583.8	2615.2	2789.0	3000.0	3257.0
42.5°	2319.7	2358.5	2519.7	2719.9	2951.8
45°	1968.3	2005.9	2138.2	2300.1	2510.1
47.5°	1665.7	1709.0	1810.6	1949.9	2129.2
50°	1493.9	1534.6	1628.5	1731.7	1901.0
52.5°	1342.6	1383.3	1466.9	1546.5	1690.7
55°	1131.6	1178.6	1247.0	1294.3	1400.9
57.5°	958.5	1003.6	1057.9	1079.2	1143.8
60°	843.1	893.3	942.5	940.1	974.5
62.5°	738.0	780.6	829.6	795.7	797.6
65°	567.4	614.4	670.0	585.4	532.2
67.5°	458.4	468.4	525.7	408.3	344.9
70°	407.1	407.1	423.2	316.2	262.9
72.5°	358.4	358.4	343.7	257.1	201.3
75°	285.3	285.3	259.7	178.2	121.8
77.5°	219.9	217.4	198.8	133.0	88.5
80°	176.3	176.3	160.3	105.0	70.5
82.5°	137.8	137.8	124.4	82.0	52.6
85°	80.1	80.1	73.7	47.7	28.9
87.5°	29.3	31.3	32.4	22.6	19.6
90°	5.2	15.4	33.9	36.5	33.9
92.5°	74.1	269.9	532.6	231.2	167.5
95°	174.8	613.4	1872.8	969.2	576.4
97.5°	280.7	703.5	2919.2	2415.8	1774.2
100°	359.9	739.9	3244.7	3383.9	2736.1
102.5°	433.0	790.5	3359.5	4117.9	3633.4
105°	566.0	874.6	3377.8	4982.5	4778.4
107.5°	689.1	970.7	3230.1	5521.8	5589.6
110°	785.1	1040.1	3098.7	5666.6	5954.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	870.7	1109.4	2977.7	5637.7	6121.7
115°	996.4	1218.3	2801.3	5422.9	6121.7
117.5°	1119.5	1327.6	2685.0	5094.8	5887.0
120°	1194.6	1398.6	2616.1	4859.4	5667.9
122.5°	1265.6	1465.5	2574.4	4607.1	5421.6
125°	1364.1	1563.1	2524.8	4260.7	5005.4
127.5°	1454.9	1650.3	2495.6	3978.0	4632.9
130°	1505.0	1706.5	2483.1	3803.3	4395.0
132.5°	1557.2	1756.6	2470.6	3645.8	4190.5
135°	1635.4	1829.2	2457.0	3440.2	3894.2
137.5°	1714.2	1897.3	2445.6	3273.5	3643.3
140°	1768.4	1939.3	2441.4	3166.1	3495.1
142.5°	1820.6	1981.3	2433.0	3069.2	3357.4
145°	1901.5	2044.3	2423.1	2944.7	3169.1
147.5°	1975.0	2101.5	2411.6	2831.9	3004.3
150°	2029.3	2141.5	2407.5	2770.6	2908.3
152.5°	2079.3	2177.3	2405.4	2713.7	2826.9
155°	2146.6	2230.8	2402.3	2641.6	2728.3
157.5°	2216.5	2275.2	2402.8	2591.4	2648.5
160°	2256.2	2304.6	2404.9	2559.7	2600.5
162.5°	2287.5	2327.8	2407.0	2534.4	2565.0
165°	2337.0	2360.0	2412.7	2506.9	2519.6
167.5°	2371.0	2386.8	2413.2	2483.3	2489.4
170°	2391.8	2399.5	2415.3	2472.7	2472.7
172.5°	2408.5	2410.0	2415.3	2460.1	2458.1
175°	2425.7	2423.2	2415.3	2446.5	2441.4
177.5°	2431.5	2425.3	2414.8	2435.5	2429.4
180°	2423.1	2423.1	2423.1	2423.1	2423.1

(END OF REPORT)