

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: P519591

Luminaire Tested: **SQ4-WB-150U-075D-940-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519591
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-075D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

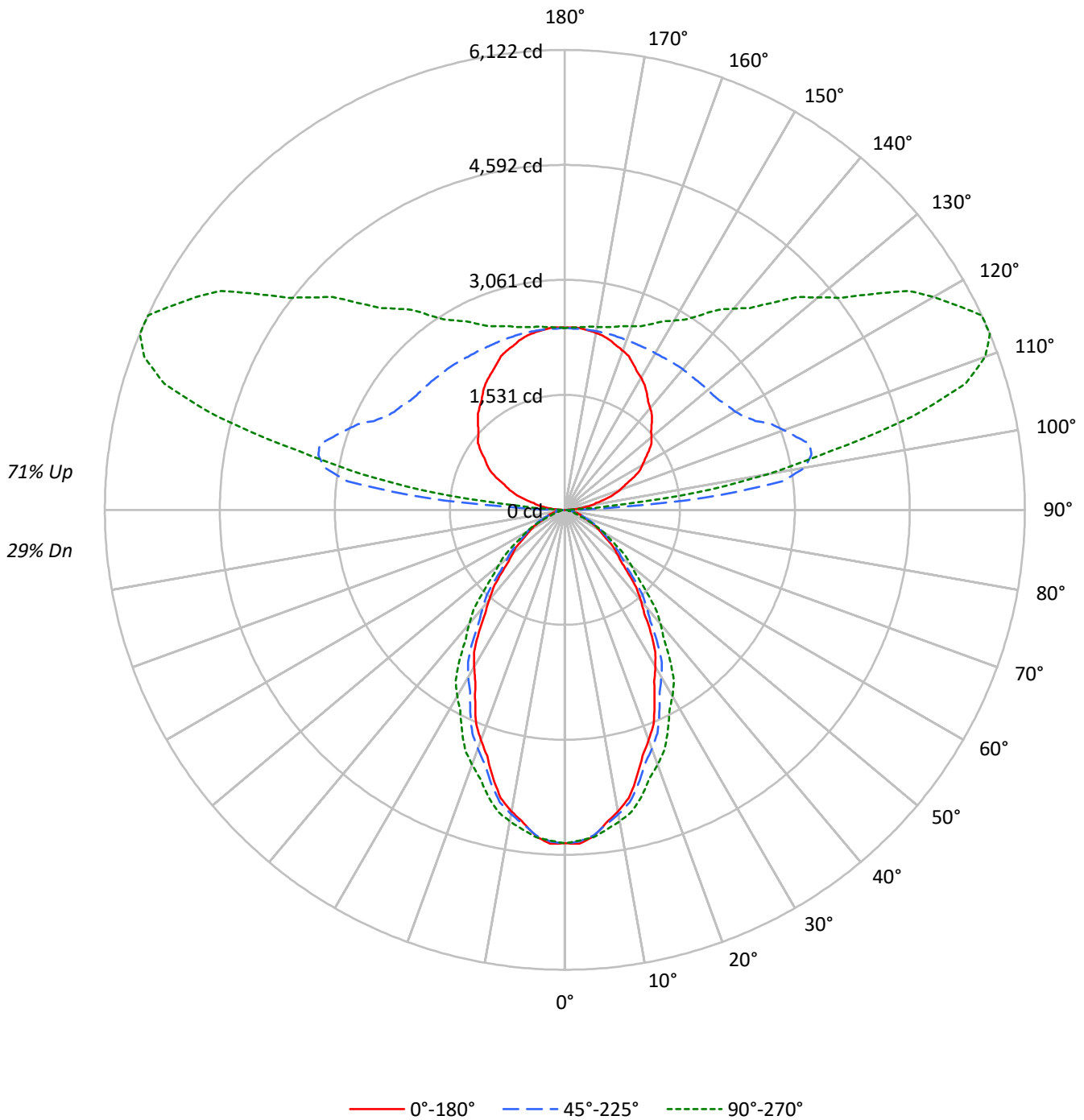
Lumens per Lamp: N/A
Luminaire Lumens: 22094.3 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 194.9
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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	29
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	34	33	33	26
2	86	79	74	69	77	71	67	63	57	54	51	43	41	39	31	29	28	23
3	79	70	64	58	71	63	58	53	51	47	44	39	36	34	28	26	25	20
4	72	63	55	50	65	57	50	46	45	41	38	35	32	30	25	24	22	18
5	67	56	49	43	60	51	44	40	41	36	33	32	29	26	23	21	20	16
6	62	50	43	38	55	46	39	35	37	32	29	29	26	23	21	19	18	15
7	57	46	38	33	51	42	35	31	34	29	26	26	23	21	20	18	16	13
8	53	41	34	29	48	38	32	27	31	26	23	24	21	19	18	16	15	12
9	49	38	31	26	44	35	29	24	28	24	21	22	19	17	17	15	13	11
10	46	35	28	24	42	32	26	22	26	22	19	21	18	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13648	13648	13648
5°	13477	13429	13508
10°	12733	12849	13147
15°	11755	12027	12567
20°	10674	11076	11809
25°	9574	10096	11002
30°	8560	9121	10165
35°	7486	8027	9175
40°	6301	6801	7943
45°	5200	5649	6631
50°	4341	4733	5525
55°	3686	4062	4562
60°	3150	3521	3641
65°	2508	2962	2352
70°	2224	2311	1436
75°	2059	1874	879
80°	1897	1725	758
85°	1718	1581	618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.0	1.8
10°-20°	1058.7	4.8
20°-30°	1371.4	6.2
30°-40°	1342.9	6.1
40°-50°	1027.9	4.7
50°-60°	685.0	3.1
60°-70°	373.8	1.7
70°-80°	155.7	0.7
80°-90°	49.2	0.2
90°-100°	1126.1	5.1
100°-110°	3044.8	13.8
110°-120°	3201.2	14.5
120°-130°	2600.2	11.8
130°-140°	2039.6	9.2
140°-150°	1565.4	7.1
150°-160°	1125.8	5.1
160°-170°	687.8	3.1
170°-180°	231.9	1.0
0°-30°	2837.1	12.8
0°-40°	4180.0	18.9
0°-60°	5892.9	26.7
0°-90°	6471.6	29.3
90°-120°	7372.0	33.4
90°-150°	13577.3	61.5
90°-180°	15623.0	70.7
0°-180°	22094.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4438	4438	4438	4438	4438	
5°	4366	4322	4350	4360	4375	406
15°	3692	3679	3778	3880	3947	1031
25°	2822	2829	2975	3105	3242	1298
35°	1994	2004	2138	2282	2444	1240
45°	1196	1218	1299	1397	1525	932
55°	687	716	758	786	851	623
65°	345	373	407	356	323	358
75°	173	173	158	108	74	185
85°	49	49	45	29	18	53
90°	5	15	34	36	34	14
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°	4437.7	4437.7	4437.7	4437.7	4437.7
2.5°	4448.6	4409.0	4419.0	4418.7	4406.5
5°	4365.6	4321.8	4350.1	4360.1	4375.4
7.5°	4203.6	4170.5	4221.9	4260.0	4290.9
10°	4077.4	4048.9	4114.4	4169.9	4209.9
12.5°	3931.0	3907.0	3988.3	4062.7	4114.8
15°	3691.9	3678.6	3777.6	3880.3	3947.0
17.5°	3436.0	3429.6	3543.1	3663.1	3748.4
20°	3261.6	3259.7	3384.2	3509.2	3608.2
22.5°	3085.5	3089.7	3220.7	3350.6	3463.3
25°	2821.5	2829.1	2975.3	3105.0	3242.1
27.5°	2577.3	2580.7	2731.9	2868.8	3015.1
30°	2410.6	2420.2	2568.4	2710.1	2862.4
32.5°	2244.0	2255.0	2400.1	2546.6	2701.9
35°	1993.9	2003.5	2138.0	2281.9	2443.7
37.5°	1736.1	1749.1	1868.5	2004.6	2163.7
40°	1569.4	1588.5	1694.1	1822.2	1978.4
42.5°	1409.0	1432.6	1530.5	1652.1	1793.0
45°	1195.6	1218.4	1298.8	1397.1	1524.7
47.5°	1011.8	1038.0	1099.8	1184.4	1293.3
50°	907.4	932.1	989.2	1051.9	1154.7
52.5°	815.5	840.2	891.0	939.4	1027.0
55°	687.4	715.9	757.5	786.2	850.9
57.5°	582.2	609.6	642.6	655.5	694.8
60°	512.1	542.6	572.5	571.0	592.0
62.5°	448.2	474.1	503.9	483.3	484.5
65°	344.7	373.2	407.0	355.6	323.2
67.5°	278.5	284.5	319.3	248.0	209.5
70°	247.3	247.3	257.0	192.0	159.7
72.5°	217.7	217.7	208.7	156.2	122.3
75°	173.3	173.3	157.7	108.3	74.0
77.5°	133.6	132.1	120.7	80.8	53.7
80°	107.1	107.1	97.4	63.8	42.8
82.5°	83.7	83.7	75.6	49.8	31.9
85°	48.7	48.7	44.8	28.9	17.5
87.5°	18.2	20.2	22.4	16.6	14.6
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)