

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: P519129

Luminaire Tested: **SQ4-WB-050U-100D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519129
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-050U-100D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

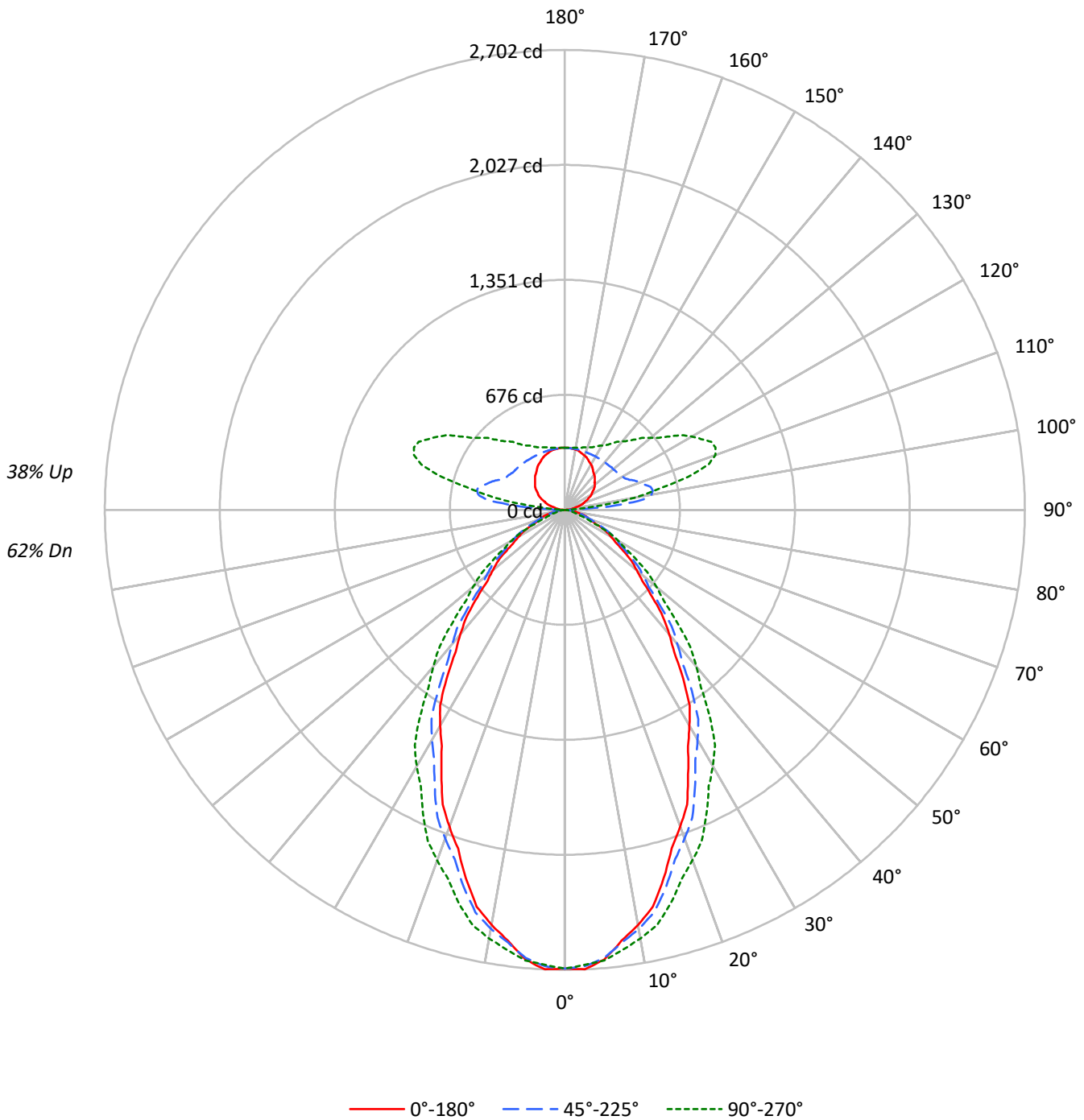
Lumens per Lamp: N/A
Luminaire Lumens: 6306.5 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 73.4
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	102	98	95	92	95	92	89	87	81	79	77	71	70	68	62	61	60	55
2	94	87	82	77	88	82	78	73	73	69	66	64	62	59	56	54	53	49
3	87	78	72	66	81	74	68	63	66	61	57	58	55	52	51	49	47	43
4	80	70	63	58	75	67	60	55	60	54	50	53	49	46	47	44	41	38
5	74	64	56	51	70	60	54	49	54	49	45	48	44	41	43	40	37	34
6	69	58	50	45	65	55	48	43	50	44	40	44	40	37	40	36	34	31
7	64	53	45	40	61	50	44	39	45	40	36	41	37	33	37	33	31	28
8	60	49	41	36	57	46	40	35	42	36	33	38	33	30	34	31	28	26
9	56	45	38	33	53	43	36	32	39	33	30	35	31	28	32	28	26	24
10	53	41	35	30	50	40	33	29	36	31	27	33	29	25	30	26	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16578	16578	16578
5°	16371	16313	16408
10°	15467	15608	15970
15°	14278	14610	15265
20°	12967	13454	14345
25°	11630	12264	13364
30°	10399	11079	12347
35°	9093	9751	11144
40°	7654	8261	9648
45°	6317	6861	8055
50°	5273	5749	6711
55°	4477	4934	5542
60°	3826	4277	4422
65°	3046	3598	2857
70°	2701	2807	1744
75°	2502	2277	1067
80°	2302	2093	921
85°	2089	1920	748



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.2	3.9
10°-20°	643.0	10.2
20°-30°	832.9	13.2
30°-40°	815.6	12.9
40°-50°	624.3	9.9
50°-60°	416.0	6.6
60°-70°	227.0	3.6
70°-80°	94.6	1.5
80°-90°	28.2	0.4
90°-100°	174.8	2.8
100°-110°	474.9	7.5
110°-120°	488.2	7.7
120°-130°	390.4	6.2
130°-140°	306.7	4.9
140°-150°	235.2	3.7
150°-160°	169.1	2.7
160°-170°	103.4	1.6
170°-180°	34.8	0.6
0°-30°	1723.2	27.3
0°-40°	2538.8	40.3
0°-60°	3579.1	56.8
0°-90°	3928.9	62.3
90°-120°	1137.9	18.0
90°-150°	2070.2	32.8
90°-180°	2378.0	37.7
0°-180°	6306.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2695	2695	2695	2695	2695	
5°	2652	2625	2642	2648	2657	247
15°	2242	2234	2294	2357	2397	626
25°	1714	1718	1807	1886	1969	788
35°	1211	1217	1299	1386	1484	753
45°	726	740	789	848	926	566
55°	418	435	460	478	517	379
65°	209	227	247	216	196	218
75°	105	105	96	66	45	112
85°	30	30	27	18	11	32
90°	1	5	8	10	10	3
95°	26	96	304	132	89	27
105°	84	131	522	795	748	90
115°	150	182	418	832	947	148
125°	206	235	378	637	752	184
135°	248	276	368	519	585	192
145°	287	308	363	441	474	180
155°	324	336	361	396	408	150
165°	351	356	362	377	378	99
175°	364	365	363	368	366	35
180°	364	364	364	364	364	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2695.3	2695.3	2695.3	2695.3	2695.3
2.5°	2701.9	2677.9	2683.9	2683.8	2676.4
5°	2651.5	2624.9	2642.1	2648.2	2657.4
7.5°	2553.1	2533.0	2564.2	2587.4	2606.1
10°	2476.5	2459.1	2499.0	2532.6	2556.9
12.5°	2387.6	2373.0	2422.3	2467.5	2499.2
15°	2242.3	2234.2	2294.4	2356.8	2397.2
17.5°	2086.9	2083.0	2152.0	2224.8	2276.6
20°	1981.0	1979.8	2055.5	2131.3	2191.5
22.5°	1874.0	1876.6	1956.1	2035.0	2103.5
25°	1713.7	1718.3	1807.1	1885.9	1969.1
27.5°	1565.4	1567.4	1659.3	1742.4	1831.2
30°	1464.1	1469.9	1559.9	1646.0	1738.5
32.5°	1362.9	1369.6	1457.7	1546.7	1641.1
35°	1211.0	1216.8	1298.6	1385.9	1484.2
37.5°	1054.5	1062.3	1134.9	1217.5	1314.2
40°	953.2	964.8	1028.9	1106.8	1201.6
42.5°	855.8	870.1	929.6	1003.4	1089.0
45°	726.2	740.0	788.8	848.5	926.0
47.5°	614.5	630.5	668.0	719.4	785.5
50°	551.1	566.2	600.8	638.9	701.3
52.5°	495.3	510.3	541.2	570.5	623.7
55°	417.5	434.8	460.1	477.5	516.8
57.5°	353.6	370.3	390.3	398.2	422.0
60°	311.0	329.5	347.7	346.8	359.5
62.5°	272.2	288.0	306.1	293.6	294.2
65°	209.3	226.7	247.2	216.0	196.3
67.5°	169.1	172.8	194.0	150.6	127.3
70°	150.2	150.2	156.1	116.6	97.0
72.5°	132.2	132.2	126.8	94.9	74.3
75°	105.3	105.3	95.8	65.8	44.9
77.5°	81.1	80.2	73.3	49.1	32.6
80°	65.0	65.0	59.1	38.7	26.0
82.5°	50.9	50.9	45.9	30.3	19.4
85°	29.6	29.6	27.2	17.6	10.6
87.5°	10.6	11.3	11.1	7.8	6.8
90°	1.2	4.6	8.2	10.5	10.5
92.5°	10.5	47.9	83.1	35.7	30.2
95°	25.8	95.6	304.4	132.5	89.0
97.5°	42.6	105.6	466.7	363.1	255.0
100°	53.9	112.2	516.4	523.4	422.7
102.5°	65.1	118.9	529.5	647.4	558.5
105°	84.3	131.2	522.2	795.1	748.2
107.5°	104.2	145.7	492.0	871.4	884.5
110°	118.3	156.0	469.5	886.5	942.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	130.4	166.4	447.0	874.0	958.5
115°	149.9	181.9	418.0	831.6	947.2
117.5°	168.1	198.8	399.5	771.5	901.8
120°	180.3	210.1	391.1	731.2	860.6
122.5°	190.6	220.4	385.5	690.9	815.6
125°	206.1	234.7	378.2	637.2	751.7
127.5°	219.9	248.3	374.2	596.6	694.8
130°	228.3	255.8	372.3	571.1	659.2
132.5°	236.8	264.2	370.5	549.3	627.4
135°	248.2	275.7	367.7	519.0	585.4
137.5°	260.6	285.6	366.3	492.3	548.2
140°	268.1	292.2	365.3	475.4	525.7
142.5°	275.6	297.8	364.4	462.1	504.2
145°	286.9	307.5	363.0	441.0	474.2
147.5°	299.5	317.1	361.8	424.5	450.6
150°	307.9	322.8	361.8	415.0	435.6
152.5°	314.5	327.6	360.9	406.4	423.4
155°	324.3	335.8	360.6	396.0	407.5
157.5°	333.9	342.9	360.6	388.9	397.6
160°	339.6	347.6	360.6	384.2	391.1
162.5°	345.2	351.4	361.6	380.4	385.5
165°	351.3	355.8	361.8	377.1	378.2
167.5°	357.6	359.9	363.0	373.1	374.0
170°	359.5	361.8	363.0	371.2	371.2
172.5°	361.3	362.7	363.0	369.3	369.3
175°	364.1	365.3	363.0	367.6	366.5
177.5°	365.1	365.1	362.3	366.0	364.1
180°	364.1	364.1	364.1	364.1	364.1

(END OF REPORT)