

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: P519034

Luminaire Tested: **SQ4-WB-025U-100D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519034
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-100D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

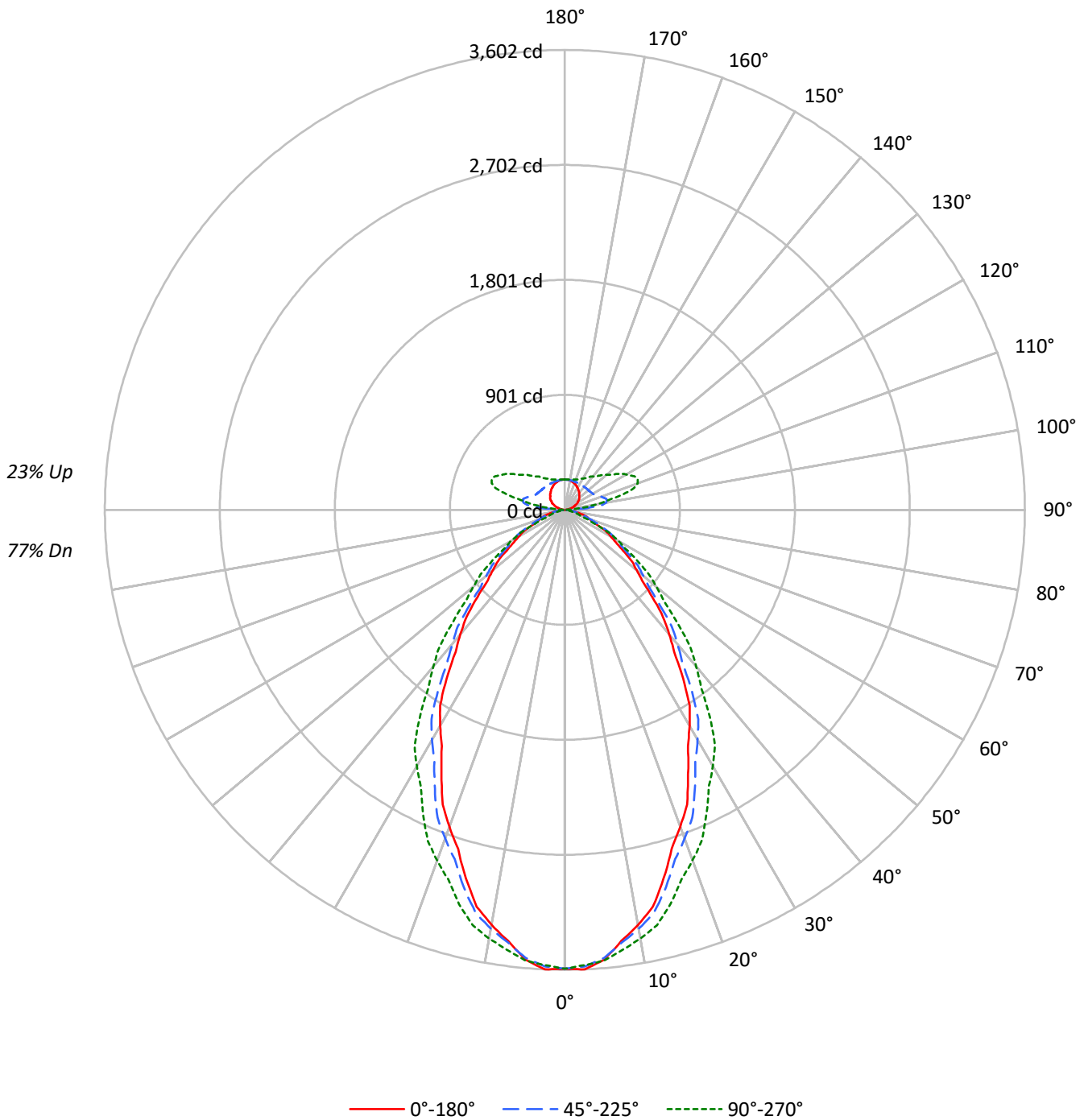
Lumens per Lamp: N/A
Luminaire Lumens: 6775.2 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 82.2
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	50	30	10	0	
RCR																						
0	114	114	114	114	108	108	108	108	99	99	99	89	89	89	81	81	81	77				
1	106	102	98	95	101	97	94	92	89	87	85	82	80	78	75	73	72	69				
2	98	91	86	81	93	87	82	78	80	76	73	74	71	68	68	66	64	60				
3	90	82	75	70	86	79	73	68	73	68	64	67	63	60	62	59	56	53				
4	84	74	67	61	80	71	65	59	66	61	56	61	57	53	57	53	50	48				
5	78	67	60	54	74	65	58	53	60	54	50	56	51	48	52	48	45	43				
6	73	61	54	48	69	59	52	47	55	49	45	51	47	43	48	44	41	39				
7	68	56	49	43	65	54	47	42	51	45	41	48	43	39	45	40	37	35				
8	63	52	44	39	61	50	43	38	47	41	37	44	39	35	41	37	34	32				
9	60	48	41	36	57	46	40	35	44	38	34	41	36	33	39	34	31	29				
10	56	44	37	33	54	43	37	32	41	35	31	38	33	30	36	32	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16578	16578	16578
5°	16371	16313	16408
10°	15467	15608	15970
15°	14279	14610	15265
20°	12967	13454	14345
25°	11630	12264	13364
30°	10399	11079	12347
35°	9093	9750	11145
40°	7654	8262	9648
45°	6316	6862	8055
50°	5273	5749	6711
55°	4477	4933	5542
60°	3826	4277	4423
65°	3047	3598	2858
70°	2702	2807	1744
75°	2501	2276	1068
80°	2303	2093	922
85°	2085	1921	752



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.6	4.9
10°-20°	857.4	12.7
20°-30°	1110.6	16.4
30°-40°	1087.5	16.1
40°-50°	832.4	12.3
50°-60°	554.7	8.2
60°-70°	302.7	4.5
70°-80°	126.1	1.9
80°-90°	37.0	0.5
90°-100°	115.6	1.7
100°-110°	303.9	4.5
110°-120°	315.1	4.7
120°-130°	252.8	3.7
130°-140°	198.3	2.9
140°-150°	152.2	2.2
150°-160°	109.6	1.6
160°-170°	67.1	1.0
170°-180°	22.7	0.3
0°-30°	2297.6	33.9
0°-40°	3385.1	50.0
0°-60°	4772.2	70.4
0°-90°	5238.0	77.3
90°-120°	734.6	10.8
90°-150°	1337.9	19.7
90°-180°	1537.0	22.7
0°-180°	6775.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3594	3594	3594	3594	3594	
5°	3535	3500	3523	3531	3543	329
15°	2990	2979	3059	3142	3196	835
25°	2285	2291	2410	2514	2626	1051
35°	1615	1622	1731	1848	1979	1004
45°	968	987	1052	1131	1235	755
55°	557	580	613	637	689	505
65°	279	302	330	288	262	290
75°	140	140	128	88	60	150
85°	39	39	36	23	14	43
90°	2	4	12	6	6	3
95°	15	60	199	103	70	17
105°	55	83	336	510	476	58
115°	97	118	269	537	613	96
125°	135	152	245	414	488	120
135°	161	178	237	334	379	125
145°	187	199	234	285	307	117
155°	211	217	234	257	264	97
165°	228	231	234	243	246	64
175°	237	237	236	239	239	23
180°	237	237	237	237	237	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3593.7	3593.7	3593.7	3593.7	3593.7
2.5°	3602.5	3570.5	3578.6	3578.3	3568.5
5°	3535.4	3499.9	3522.7	3530.9	3543.2
7.5°	3404.2	3377.3	3419.0	3449.8	3474.8
10°	3302.0	3278.9	3331.9	3376.8	3409.2
12.5°	3183.4	3164.0	3229.8	3290.0	3332.3
15°	2989.8	2979.0	3059.1	3142.4	3196.3
17.5°	2782.6	2777.3	2869.3	2966.4	3035.5
20°	2641.3	2639.7	2740.6	2841.8	2922.0
22.5°	2498.7	2502.1	2608.2	2713.4	2804.6
25°	2284.9	2291.1	2409.5	2514.5	2625.5
27.5°	2087.2	2089.9	2212.4	2323.2	2441.6
30°	1952.2	1959.9	2079.9	2194.7	2318.0
32.5°	1817.2	1826.1	1943.7	2062.3	2188.1
35°	1614.7	1622.4	1731.4	1847.9	1979.0
37.5°	1405.9	1416.4	1513.2	1623.3	1752.2
40°	1271.0	1286.4	1371.9	1475.7	1602.1
42.5°	1141.0	1160.1	1239.4	1337.9	1452.0
45°	968.2	986.7	1051.8	1131.4	1234.7
47.5°	819.3	840.6	890.6	959.2	1047.4
50°	734.8	754.9	801.1	851.8	935.1
52.5°	660.4	680.4	721.6	760.7	831.6
55°	556.6	579.8	613.4	636.7	689.1
57.5°	471.5	493.7	520.4	530.9	562.6
60°	414.7	439.4	463.6	462.4	479.4
62.5°	363.0	384.0	408.1	391.4	392.3
65°	279.1	302.2	329.6	288.0	261.8
67.5°	225.5	230.4	258.6	200.8	169.7
70°	200.3	200.3	208.1	155.5	129.3
72.5°	176.3	176.3	169.0	126.5	99.0
75°	140.3	140.3	127.7	87.7	59.9
77.5°	108.2	106.9	97.8	65.4	43.5
80°	86.7	86.7	78.8	51.7	34.7
82.5°	67.8	67.8	61.2	40.4	25.9
85°	39.4	39.4	36.3	23.4	14.2
87.5°	14.2	14.8	15.0	8.8	7.5
90°	1.5	4.5	12.2	6.1	6.1
92.5°	6.4	30.8	68.1	30.2	19.5
95°	15.2	59.8	199.2	102.6	69.9
97.5°	26.5	65.7	298.0	237.0	174.5
100°	35.0	70.6	328.4	332.8	258.5
102.5°	42.3	75.6	336.9	414.5	350.9
105°	54.7	83.0	336.0	510.1	475.9
107.5°	67.5	93.7	316.8	559.7	568.0
110°	76.0	99.8	301.0	572.5	608.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	84.5	107.1	286.4	564.4	619.1
115°	97.3	118.1	269.1	536.9	612.7
117.5°	109.8	128.8	257.2	498.8	582.9
120°	117.1	134.9	252.4	473.2	554.9
122.5°	124.4	142.2	248.7	447.6	528.2
125°	135.3	151.7	244.8	413.7	488.0
127.5°	144.1	160.8	241.4	386.4	449.1
130°	149.0	166.8	240.2	369.2	427.2
132.5°	153.9	171.7	239.0	354.5	406.5
135°	161.2	177.5	237.2	334.0	378.6
137.5°	168.8	184.8	236.9	318.6	355.2
140°	174.8	189.7	235.7	306.4	340.6
142.5°	179.7	193.4	235.7	297.7	327.2
145°	187.0	198.9	234.1	284.8	307.1
147.5°	194.3	205.9	234.1	274.1	292.5
150°	199.2	209.6	234.1	267.9	282.8
152.5°	204.0	212.1	234.1	263.0	274.3
155°	211.3	217.3	234.1	257.1	264.5
157.5°	216.8	222.5	234.1	251.9	257.2
160°	220.5	224.9	234.1	249.4	252.4
162.5°	224.1	227.4	234.1	247.0	249.9
165°	228.1	231.0	234.1	243.3	246.3
167.5°	231.7	233.2	235.7	241.8	243.0
170°	234.1	235.6	235.7	241.7	241.7
172.5°	235.3	235.6	235.7	240.5	239.3
175°	237.2	237.2	235.7	238.7	238.7
177.5°	237.2	237.2	236.0	238.4	237.2
180°	237.2	237.2	237.2	237.2	237.2

(END OF REPORT)