

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: P519031

Luminaire Tested: **SQ4-WB-025U-100D-930-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519031
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-12
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

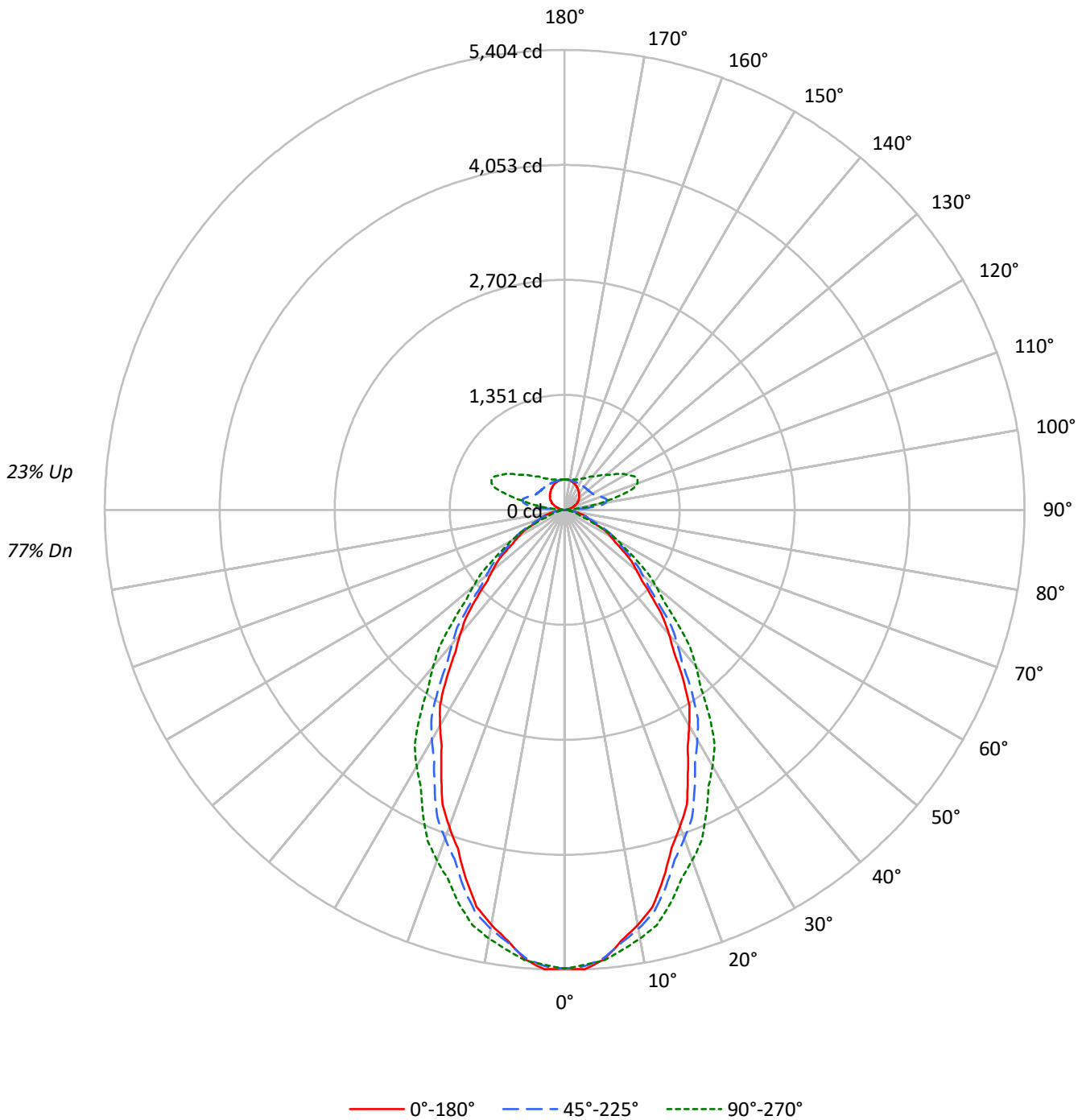
Lumens per Lamp: N/A
Luminaire Lumens: 10162.8 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 123.6
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°	14278	14610	15265
20°	12966	13454	14344
25°	11630	12264	13364
30°	10399	11079	12347
35°	9093	9750	11145
40°	7654	8261	9648
45°	6316	6862	8055
50°	5273	5749	6711
55°	4477	4933	5542
60°	3826	4277	4423
65°	3047	3598	2857
70°	2701	2807	1744
75°	2501	2277	1068
80°	2304	2095	921
85°	2085	1920	752



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.4	4.9
10°-20°	1286.1	12.7
20°-30°	1665.8	16.4
30°-40°	1631.3	16.1
40°-50°	1248.6	12.3
50°-60°	832.0	8.2
60°-70°	454.0	4.5
70°-80°	189.2	1.9
80°-90°	55.5	0.5
90°-100°	173.4	1.7
100°-110°	455.8	4.5
110°-120°	472.7	4.7
120°-130°	379.1	3.7
130°-140°	297.5	2.9
140°-150°	228.3	2.2
150°-160°	164.5	1.6
160°-170°	100.6	1.0
170°-180°	34.0	0.3
0°-30°	3446.3	33.9
0°-40°	5077.6	50.0
0°-60°	7158.2	70.4
0°-90°	7856.9	77.3
90°-120°	1101.9	10.8
90°-150°	2006.9	19.7
90°-180°	2306.0	22.7
0°-180°	10162.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5391	5391	5391	5391	5391	
5°	5303	5250	5284	5296	5315	493
15°	4485	4468	4589	4714	4794	1252
25°	3427	3437	3614	3772	3938	1576
35°	2422	2434	2597	2772	2968	1506
45°	1452	1480	1578	1697	1852	1133
55°	835	870	920	955	1034	757
65°	419	453	494	432	393	435
75°	210	210	192	132	90	225
85°	59	59	54	35	21	64
90°	2	7	18	9	9	5
95°	23	90	299	154	105	25
105°	82	124	504	765	714	87
115°	146	177	404	805	919	144
125°	203	228	367	621	732	180
135°	242	266	356	501	568	187
145°	280	298	351	427	461	176
155°	317	326	351	386	397	146
165°	342	346	351	365	369	97
175°	356	356	354	358	358	34
180°	356	356	356	356	356	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5390.6	5390.6	5390.6	5390.6	5390.6
2.5°	5403.8	5355.7	5367.9	5367.5	5352.7
5°	5303.0	5249.8	5284.1	5296.4	5314.9
7.5°	5106.2	5066.0	5128.5	5174.7	5212.2
10°	4953.0	4918.3	4997.9	5065.2	5113.8
12.5°	4775.1	4746.0	4844.6	4935.0	4998.4
15°	4484.6	4468.5	4588.7	4713.6	4794.5
17.5°	4173.8	4166.0	4303.9	4449.6	4553.2
20°	3961.9	3959.6	4110.9	4262.7	4382.9
22.5°	3748.1	3753.2	3912.2	4070.0	4207.0
25°	3427.3	3436.6	3614.2	3771.7	3938.3
27.5°	3130.7	3134.9	3318.5	3484.8	3662.5
30°	2928.3	2939.8	3119.9	3292.0	3477.0
32.5°	2725.8	2739.2	2915.5	3093.4	3282.1
35°	2422.1	2433.6	2597.1	2771.9	2968.5
37.5°	2108.9	2124.6	2269.8	2435.0	2628.3
40°	1906.4	1929.6	2057.8	2213.5	2403.2
42.5°	1711.5	1740.2	1859.1	2006.8	2178.0
45°	1452.3	1480.1	1577.7	1697.1	1852.0
47.5°	1229.0	1260.9	1335.9	1438.8	1571.0
50°	1102.2	1132.3	1201.6	1277.7	1402.6
52.5°	990.6	1020.7	1082.4	1141.1	1247.5
55°	835.0	869.6	920.1	955.0	1033.6
57.5°	707.2	740.5	780.6	796.3	843.9
60°	622.1	659.1	695.4	693.6	719.1
62.5°	544.5	575.9	612.1	587.1	588.5
65°	418.7	453.4	494.4	432.0	392.6
67.5°	338.2	345.6	387.9	301.2	254.5
70°	300.4	300.4	312.2	233.3	194.0
72.5°	264.4	264.4	253.6	189.7	148.5
75°	210.5	210.5	191.6	131.5	89.9
77.5°	162.3	160.4	146.6	98.1	65.3
80°	130.1	130.1	118.3	77.5	52.0
82.5°	101.7	101.7	91.8	60.5	38.8
85°	59.1	59.1	54.4	35.2	21.3
87.5°	21.3	22.2	22.6	13.1	11.3
90°	2.3	6.7	18.2	9.1	9.1
92.5°	9.6	46.1	102.2	45.2	29.2
95°	22.8	89.7	298.7	154.0	104.9
97.5°	39.7	98.5	447.0	355.5	261.8
100°	52.5	106.0	492.6	499.2	387.7
102.5°	63.4	113.3	505.4	621.8	526.3
105°	82.1	124.5	504.0	765.1	713.8
107.5°	101.3	140.5	475.3	839.5	852.0
110°	114.0	149.7	451.5	858.7	912.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	126.8	160.7	429.7	846.6	928.6
115°	146.0	177.2	403.7	805.3	919.1
117.5°	164.7	193.2	385.9	748.1	874.4
120°	175.6	202.4	378.6	709.7	832.4
122.5°	186.5	213.3	373.1	671.4	792.3
125°	203.0	227.5	367.2	620.6	732.0
127.5°	216.2	241.2	362.1	579.6	673.7
130°	223.5	250.2	360.3	553.9	640.8
132.5°	230.8	257.5	358.5	531.8	609.8
135°	241.7	266.3	355.8	501.0	567.9
137.5°	253.1	277.2	355.3	477.9	532.7
140°	262.3	284.6	353.5	459.6	510.8
142.5°	269.6	290.1	353.5	446.6	490.8
145°	280.5	298.3	351.2	427.2	460.7
147.5°	291.5	308.8	351.2	411.1	438.8
150°	298.7	314.4	351.2	401.9	424.2
152.5°	306.0	318.1	351.2	394.5	411.4
155°	317.0	325.9	351.2	385.7	396.8
157.5°	325.2	333.7	351.2	377.8	385.9
160°	330.7	337.4	351.2	374.1	378.6
162.5°	336.1	341.1	351.2	370.5	374.9
165°	342.1	346.5	351.2	365.0	369.4
167.5°	347.6	349.8	353.5	362.6	364.4
170°	351.2	353.4	353.5	362.6	362.6
172.5°	353.0	353.5	353.5	360.7	359.0
175°	355.8	355.8	353.5	358.0	358.0
177.5°	355.8	355.8	353.9	357.5	355.8
180°	355.8	355.8	355.8	355.8	355.8

(END OF REPORT)