

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: P519066

Luminaire Tested: **SQ4-WB-025U-125D-940-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519066
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-125D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

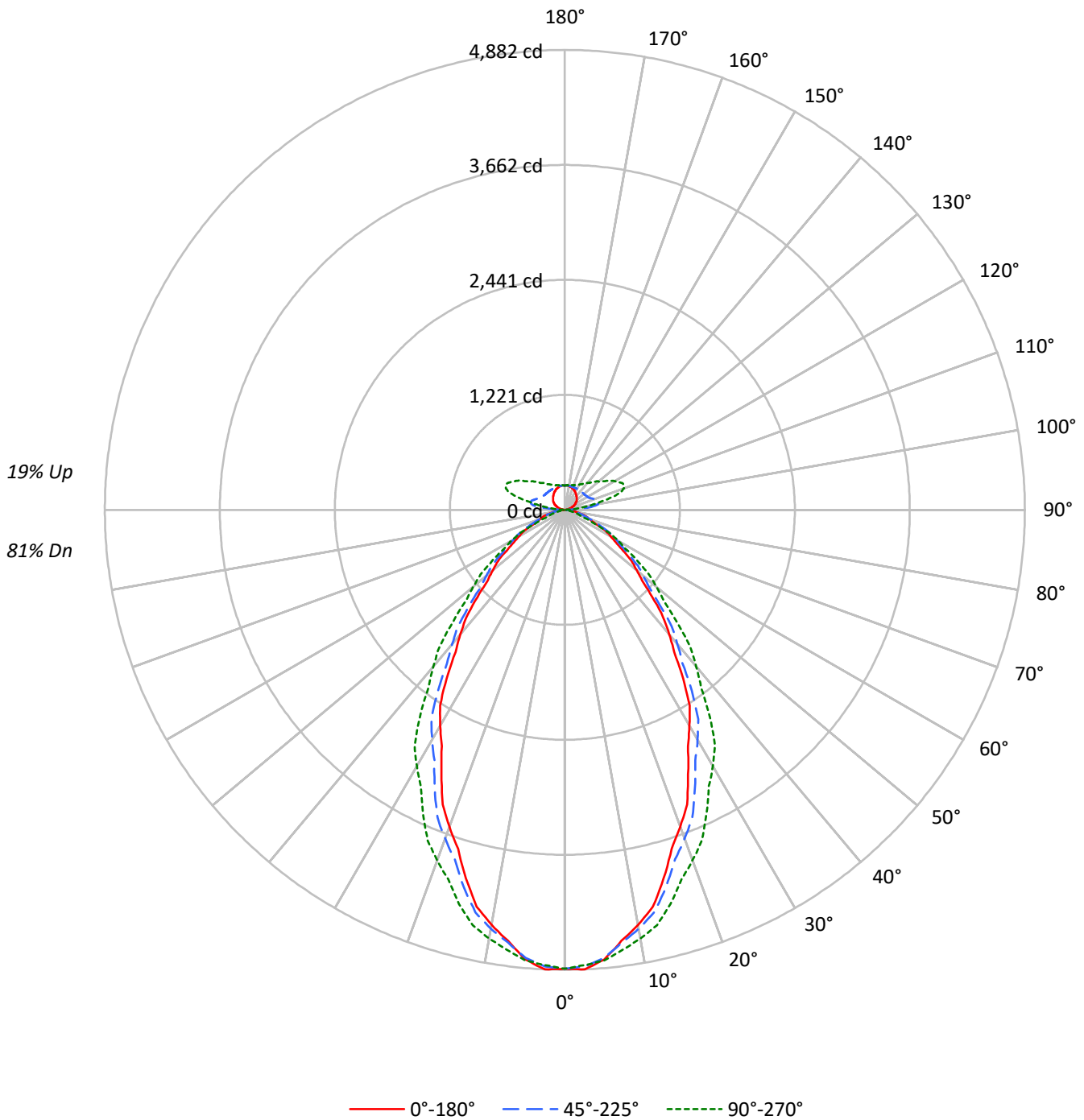
Lumens per Lamp: N/A
Luminaire Lumens: 8785.6 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 101.6
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	110	110	110	110	100	100	100	92	92	92	84	84	84	84	84	84	81	
1	106	103	99	96	102	99	96	93	91	89	87	84	82	81	77	76	75	75	75	75	72	
2	99	92	86	82	94	89	84	79	82	78	75	76	73	70	71	68	66	66	66	66	63	
3	91	83	76	71	87	80	74	69	74	69	65	69	65	62	64	61	59	59	59	59	56	
4	85	75	67	62	81	72	66	60	67	62	58	63	59	55	59	55	52	52	52	52	50	
5	79	68	60	55	75	66	59	54	62	56	51	58	53	49	54	50	47	47	47	47	45	
6	73	62	54	49	70	60	53	48	56	51	46	53	48	44	50	46	43	43	43	43	40	
7	69	57	49	44	66	55	48	43	52	46	42	49	44	40	46	42	39	39	39	39	37	
8	64	52	45	40	62	51	44	39	48	42	38	46	40	37	43	39	35	35	35	35	34	
9	60	49	41	37	58	47	41	36	45	39	35	42	37	34	40	36	33	33	33	33	31	
10	57	45	38	34	55	44	37	33	42	36	32	40	35	31	38	33	30	30	30	30	28	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22469	22469	22469
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	15104
40°	10373	11197	13076
45°	8561	9300	10917
50°	7147	7792	9095
55°	6067	6687	7511
60°	5186	5797	5994
65°	4129	4876	3873
70°	3661	3805	2363
75°	3390	3085	1447
80°	3121	2840	1249
85°	2826	2604	1016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.7	5.1
10°-20°	1162.0	13.2
20°-30°	1505.1	17.1
30°-40°	1473.9	16.8
40°-50°	1128.2	12.8
50°-60°	751.8	8.6
60°-70°	410.2	4.7
70°-80°	170.9	1.9
80°-90°	49.8	0.6
90°-100°	126.8	1.4
100°-110°	333.5	3.8
110°-120°	345.8	3.9
120°-130°	277.3	3.2
130°-140°	217.6	2.5
140°-150°	167.0	1.9
150°-160°	120.3	1.4
160°-170°	73.6	0.8
170°-180°	24.9	0.3
0°-30°	3113.9	35.4
0°-40°	4587.8	52.2
0°-60°	6467.7	73.6
0°-90°	7098.7	80.8
90°-120°	806.1	9.2
90°-150°	1468.1	16.7
90°-180°	1687.0	19.2
0°-180°	8785.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4871	4871	4871	4871	4871	
5°	4792	4743	4774	4786	4802	446
15°	4052	4037	4146	4259	4332	1132
25°	3097	3105	3266	3408	3558	1424
35°	2188	2199	2347	2504	2682	1361
45°	1312	1337	1426	1533	1673	1023
55°	754	786	831	863	934	684
65°	378	410	447	390	355	393
75°	190	190	173	119	81	203
85°	53	53	49	32	19	58
90°	2	5	13	7	7	4
95°	17	66	218	113	77	19
105°	60	91	369	560	522	64
115°	107	130	295	589	672	105
125°	148	166	269	454	536	132
135°	177	195	260	366	415	137
145°	205	218	257	312	337	129
155°	232	238	257	282	290	107
165°	250	254	257	267	270	71
175°	260	260	259	262	262	25
180°	260	260	260	260	260	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4870.6	4870.6	4870.6	4870.6	4870.6
2.5°	4882.5	4839.1	4850.0	4849.7	4836.4
5°	4791.5	4743.4	4774.4	4785.5	4802.2
7.5°	4613.7	4577.3	4633.8	4675.6	4709.4
10°	4475.2	4443.8	4515.8	4576.6	4620.5
12.5°	4314.5	4288.1	4377.3	4459.0	4516.2
15°	4052.0	4037.4	4146.1	4258.9	4332.0
17.5°	3771.2	3764.1	3888.8	4020.4	4114.0
20°	3579.7	3577.6	3714.4	3851.5	3960.1
22.5°	3386.5	3391.1	3534.8	3677.4	3801.1
25°	3096.7	3105.1	3265.6	3407.9	3558.4
27.5°	2828.7	2832.5	2998.4	3148.7	3309.2
30°	2645.8	2656.2	2818.9	2974.4	3141.6
32.5°	2462.9	2475.0	2634.3	2795.0	2965.5
35°	2188.4	2198.9	2346.6	2504.5	2682.1
37.5°	1905.5	1919.7	2050.8	2200.1	2374.8
40°	1722.5	1743.4	1859.3	2000.0	2171.3
42.5°	1546.4	1572.4	1679.8	1813.3	1967.9
45°	1312.2	1337.3	1425.5	1533.4	1673.4
47.5°	1110.5	1139.3	1207.1	1300.0	1419.5
50°	995.9	1023.1	1085.7	1154.5	1267.3
52.5°	895.0	922.2	978.0	1031.0	1127.1
55°	754.4	785.8	831.4	862.9	933.9
57.5°	639.0	669.1	705.3	719.5	762.5
60°	562.1	595.5	628.3	626.7	649.7
62.5°	492.0	520.4	553.1	530.5	531.7
65°	378.3	409.6	446.7	390.3	354.8
67.5°	305.6	312.3	350.5	272.2	230.0
70°	271.4	271.4	282.1	210.8	175.2
72.5°	238.9	238.9	229.1	171.4	134.2
75°	190.2	190.2	173.1	118.8	81.2
77.5°	146.6	144.9	132.5	88.7	59.0
80°	117.5	117.5	106.9	70.0	47.0
82.5°	91.9	91.9	82.9	54.7	35.0
85°	53.4	53.4	49.2	31.8	19.2
87.5°	19.1	19.8	19.8	11.6	9.9
90°	1.7	4.9	13.3	6.7	6.7
92.5°	7.0	33.8	74.7	33.1	21.4
95°	16.7	65.6	218.5	112.6	76.7
97.5°	29.0	72.1	327.0	260.0	191.5
100°	38.4	77.5	360.3	365.2	283.6
102.5°	46.4	82.9	369.7	454.9	385.0
105°	60.1	91.1	368.7	559.7	522.2
107.5°	74.1	102.8	347.7	614.1	623.3
110°	83.4	109.5	330.3	628.2	667.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.8	117.6	314.3	619.3	679.3
115°	106.8	129.6	295.3	589.1	672.3
117.5°	120.4	141.3	282.3	547.3	639.6
120°	128.5	148.0	276.9	519.2	608.9
122.5°	136.5	156.0	272.9	491.1	579.6
125°	148.5	166.4	268.6	454.0	535.5
127.5°	158.2	176.4	264.9	424.0	492.8
130°	163.5	183.1	263.6	405.2	468.8
132.5°	168.8	188.4	262.3	389.0	446.1
135°	176.8	194.8	260.3	366.5	415.4
137.5°	185.2	202.8	259.9	349.6	389.7
140°	191.9	208.2	258.6	336.2	373.7
142.5°	197.2	212.2	258.6	326.7	359.0
145°	205.2	218.2	256.9	312.5	337.0
147.5°	213.2	225.9	256.9	300.7	321.0
150°	218.5	230.0	256.9	294.0	310.3
152.5°	223.9	232.7	256.9	288.6	301.0
155°	231.9	238.4	256.9	282.1	290.3
157.5°	237.9	244.1	256.9	276.4	282.3
160°	241.9	246.8	256.9	273.7	276.9
162.5°	245.9	249.5	256.9	271.0	274.3
165°	250.2	253.5	256.9	267.0	270.3
167.5°	254.2	255.9	258.6	265.3	266.6
170°	256.9	258.5	258.6	265.3	265.3
172.5°	258.2	258.6	258.6	263.9	262.6
175°	260.3	260.3	258.6	261.9	261.9
177.5°	260.3	260.3	258.9	261.6	260.3
180°	260.3	260.3	260.3	260.3	260.3

(END OF REPORT)