

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: P519042

Luminaire Tested: **SQ4-WB-025U-100D-940-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519042
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-940-1D-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

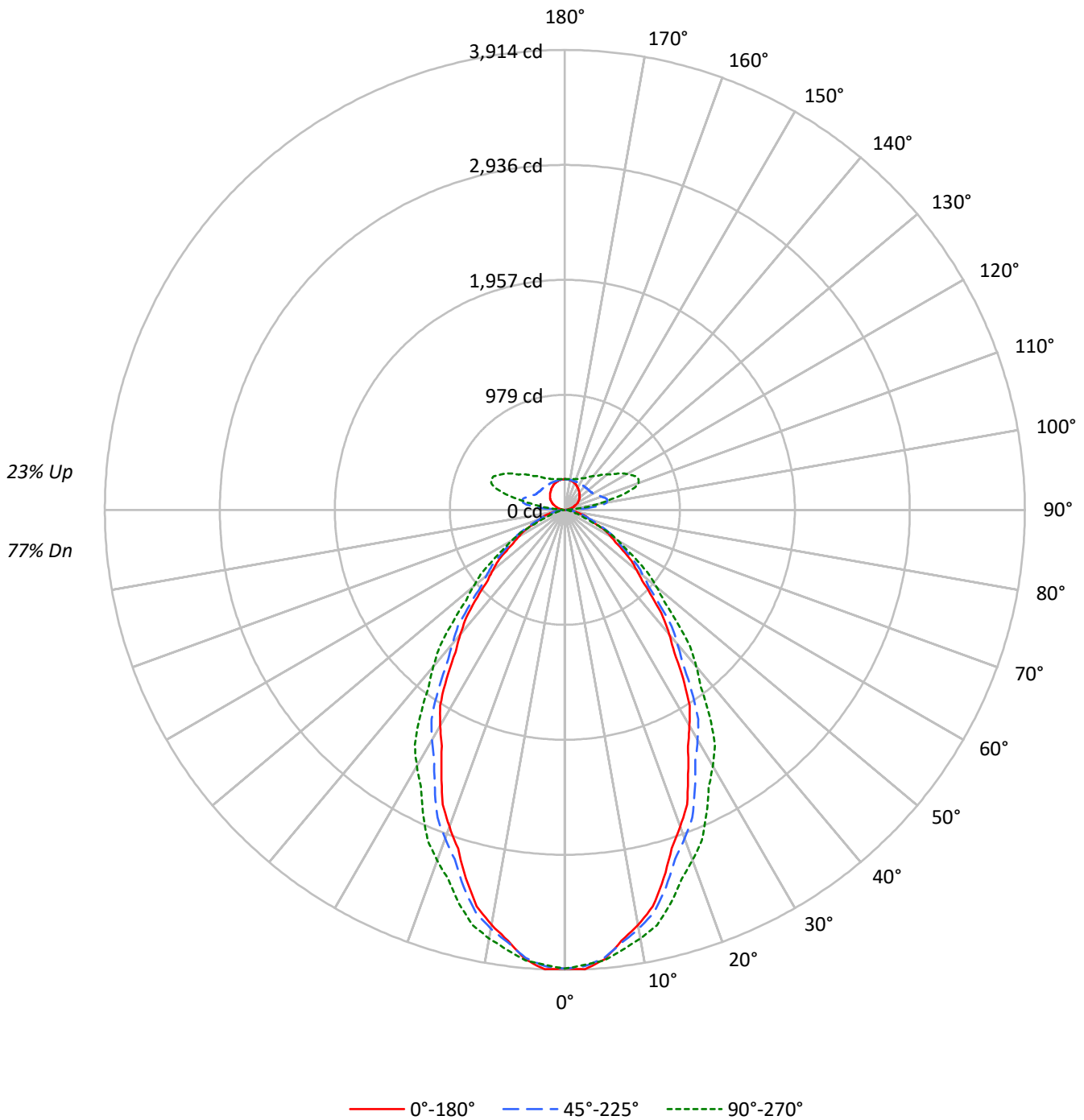
Lumens per Lamp: N/A
Luminaire Lumens: 7377.2 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

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	0
RCR																		
0	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81	77
1	106	102	98	95	101	97	94	92	89	87	85	81	80	78	74	73	72	68
2	98	91	86	81	93	87	82	78	80	76	73	74	71	68	68	65	63	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	60	56	61	57	53	57	53	50	48
5	78	67	59	54	74	65	58	53	60	54	50	56	51	48	52	48	45	43
6	72	61	54	48	69	59	52	47	55	49	45	51	47	43	48	44	41	38
7	68	56	49	43	65	54	47	42	51	45	41	47	43	39	44	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	32	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°	18010	18010	18010
5°	17785	17722	17825
10°	16803	16956	17349
15°	15512	15872	16584
20°	14086	14616	15583
25°	12634	13324	14518
30°	11297	12036	13414
35°	9879	10592	12107
40°	8315	8975	10481
45°	6862	7454	8751
50°	5729	6245	7290
55°	4863	5360	6021
60°	4156	4646	4805
65°	3310	3908	3104
70°	2935	3050	1895
75°	2718	2474	1160
80°	2502	2277	1002
85°	2265	2085	815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.1	4.9
10°-20°	931.4	12.6
20°-30°	1206.5	16.4
30°-40°	1181.4	16.0
40°-50°	904.3	12.3
50°-60°	602.6	8.2
60°-70°	328.8	4.5
70°-80°	137.0	1.9
80°-90°	40.2	0.5
90°-100°	126.8	1.7
100°-110°	333.5	4.5
110°-120°	345.8	4.7
120°-130°	277.3	3.8
130°-140°	217.6	3.0
140°-150°	167.0	2.3
150°-160°	120.3	1.6
160°-170°	73.6	1.0
170°-180°	24.9	0.3
0°-30°	2496.0	33.8
0°-40°	3677.4	49.8
0°-60°	5184.3	70.3
0°-90°	5690.3	77.1
90°-120°	806.1	10.9
90°-150°	1468.1	19.9
90°-180°	1687.0	22.9
0°-180°	7377.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3904	3904	3904	3904	3904	
5°	3841	3802	3827	3836	3849	357
15°	3248	3236	3323	3414	3472	907
25°	2482	2489	2618	2732	2852	1142
35°	1754	1763	1881	2008	2150	1091
45°	1052	1072	1143	1229	1341	820
55°	605	630	666	692	749	548
65°	303	328	358	313	284	315
75°	152	152	139	95	65	163
85°	43	43	39	26	15	47
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	



TEST NUMBER: P519042

CATALOG NUMBER: SQ4-WB-025U-100D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3904.1	3904.1	3904.1	3904.1	3904.1
2.5°	3913.7	3878.8	3887.6	3887.4	3876.7
5°	3840.7	3802.2	3827.0	3835.9	3849.3
7.5°	3698.2	3669.0	3714.3	3747.8	3774.9
10°	3587.2	3562.0	3619.7	3668.5	3703.6
12.5°	3458.3	3437.2	3508.7	3574.2	3620.1
15°	3248.0	3236.2	3323.3	3413.8	3472.4
17.5°	3022.9	3017.2	3117.1	3222.6	3297.7
20°	2869.4	2867.7	2977.3	3087.2	3174.3
22.5°	2714.5	2718.2	2833.4	2947.7	3046.9
25°	2482.2	2488.9	2617.6	2731.7	2852.3
27.5°	2267.4	2270.4	2403.4	2523.9	2652.5
30°	2120.8	2129.2	2259.5	2384.2	2518.2
32.5°	1974.1	1983.9	2111.5	2240.4	2377.1
35°	1754.2	1762.6	1880.9	2007.5	2149.9
37.5°	1527.4	1538.8	1643.9	1763.5	1903.6
40°	1380.7	1397.5	1490.4	1603.1	1740.5
42.5°	1239.6	1260.3	1346.5	1453.4	1577.4
45°	1051.8	1071.9	1142.6	1229.1	1341.3
47.5°	890.1	913.2	967.5	1042.0	1137.8
50°	798.3	820.1	870.2	925.4	1015.8
52.5°	717.4	739.2	783.9	826.4	903.5
55°	604.7	629.8	666.4	691.7	748.6
57.5°	512.2	536.3	565.3	576.7	611.2
60°	450.5	477.3	503.6	502.3	520.8
62.5°	394.3	417.1	443.3	425.2	426.2
65°	303.2	328.3	358.0	312.8	284.4
67.5°	245.0	250.3	280.9	218.2	184.3
70°	217.6	217.6	226.1	168.9	140.5
72.5°	191.5	191.5	183.6	137.4	107.6
75°	152.5	152.5	138.8	95.2	65.1
77.5°	117.5	116.2	106.2	71.1	47.3
80°	94.2	94.2	85.7	56.1	37.7
82.5°	73.7	73.7	66.5	43.8	28.1
85°	42.8	42.8	39.4	25.5	15.4
87.5°	15.4	16.1	16.4	9.5	8.2
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



TEST NUMBER: P519042

CATALOG NUMBER: SQ4-WB-025U-100D-940-1D-UNV-STD-W-8

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)