

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: P519035

Luminaire Tested: **SQ4-WB-025U-100D-935-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519035
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-935-1D-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

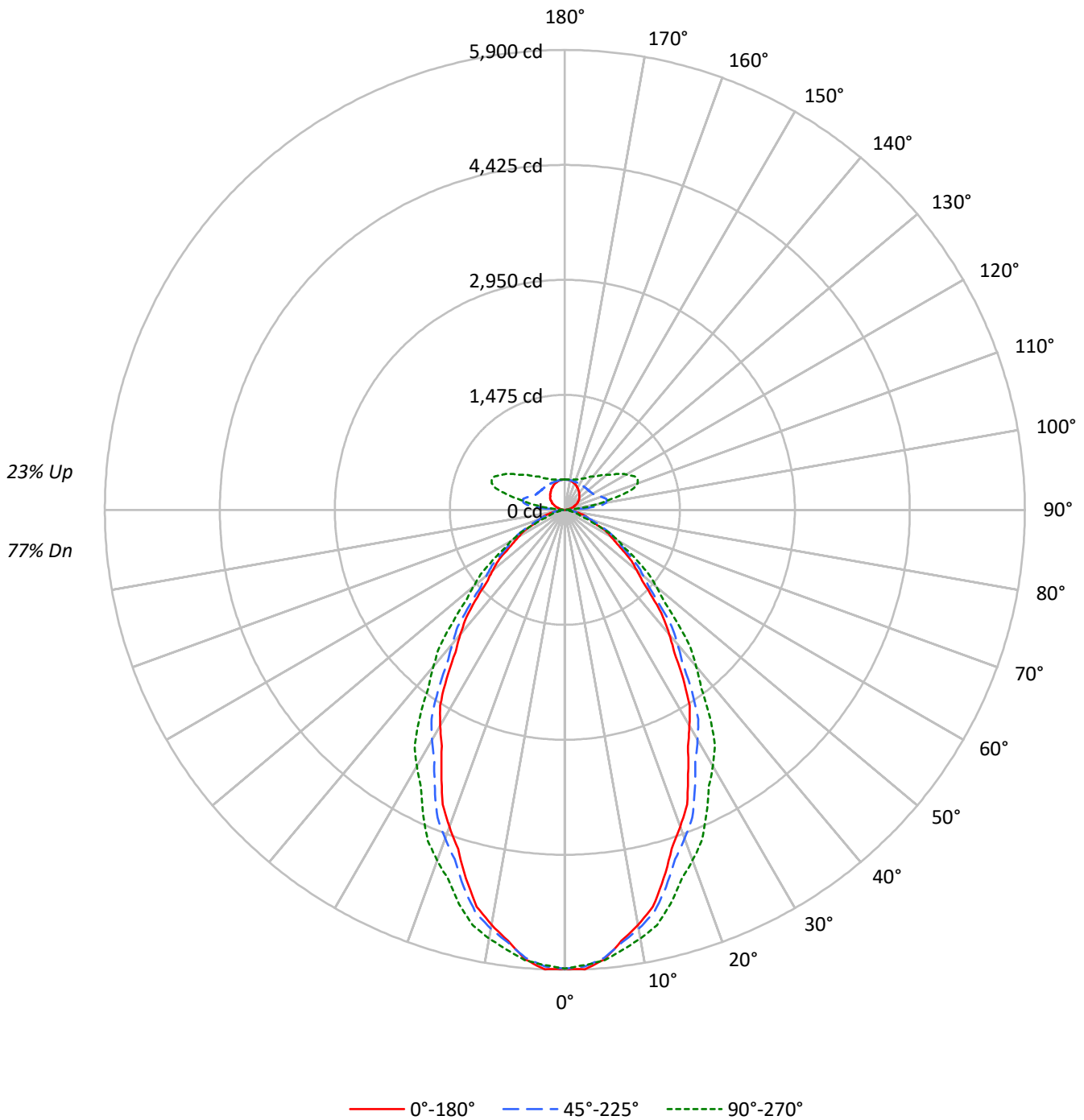
Lumens per Lamp: N/A
Luminaire Lumens: 11096.9 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

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



TEST NUMBER: P519035
CATALOG NUMBER: SQ4-WB-025U-100D-935-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P519035

CATALOG NUMBER: SQ4-WB-025U-100D-935-1D-UNV-STD-W-12

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°	18102	18102	18102
5°	17876	17812	17916
10°	16889	17042	17437
15°	15591	15953	16668
20°	14158	14691	15663
25°	12699	13391	14592
30°	11355	12097	13482
35°	9929	10647	12169
40°	8357	9021	10534
45°	6897	7492	8796
50°	5758	6277	7327
55°	4888	5387	6051
60°	4178	4670	4829
65°	3326	3928	3120
70°	2949	3065	1904
75°	2732	2486	1166
80°	2515	2286	1006
85°	2279	2096	819



TEST NUMBER: P519035

CATALOG NUMBER: SQ4-WB-025U-100D-935-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.9	4.9
10°-20°	1404.3	12.7
20°-30°	1818.9	16.4
30°-40°	1781.2	16.1
40°-50°	1363.4	12.3
50°-60°	908.5	8.2
60°-70°	495.8	4.5
70°-80°	206.6	1.9
80°-90°	60.6	0.5
90°-100°	189.3	1.7
100°-110°	497.7	4.5
110°-120°	516.1	4.7
120°-130°	414.0	3.7
130°-140°	324.8	2.9
140°-150°	249.3	2.2
150°-160°	179.6	1.6
160°-170°	109.9	1.0
170°-180°	37.1	0.3
0°-30°	3763.1	33.9
0°-40°	5544.3	50.0
0°-60°	7816.2	70.4
0°-90°	8579.1	77.3
90°-120°	1203.2	10.8
90°-150°	2191.3	19.7
90°-180°	2518.0	22.7
0°-180°	11096.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5886	5886	5886	5886	5886	
5°	5790	5732	5770	5783	5803	539
15°	4897	4879	5010	5147	5235	1367
25°	3742	3752	3946	4118	4300	1721
35°	2645	2657	2836	3027	3241	1644
45°	1586	1616	1723	1853	2022	1237
55°	912	950	1005	1043	1129	827
65°	457	495	540	472	429	475
75°	230	230	209	144	98	245
85°	65	65	59	38	23	70
90°	2	7	20	10	10	5
95°	25	98	326	168	114	28
105°	90	136	550	835	779	95
115°	159	194	441	879	1004	157
125°	222	248	401	678	799	197
135°	264	291	388	547	620	204
145°	306	326	384	466	503	192
155°	346	356	384	421	433	159
165°	374	378	384	398	403	105
175°	388	388	386	391	391	37
180°	388	388	388	388	388	

TEST NUMBER: P519035

CATALOG NUMBER: SQ4-WB-025U-100D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5886.0	5886.0	5886.0	5886.0	5886.0
2.5°	5900.5	5847.9	5861.2	5860.8	5844.7
5°	5790.4	5732.4	5769.8	5783.2	5803.4
7.5°	5575.6	5531.6	5599.8	5650.4	5691.3
10°	5408.2	5370.3	5457.3	5530.8	5583.8
12.5°	5214.0	5182.2	5289.9	5388.6	5457.8
15°	4896.8	4879.1	5010.5	5146.8	5235.2
17.5°	4557.5	4548.9	4699.5	4858.6	4971.7
20°	4326.0	4323.5	4488.8	4654.5	4785.8
22.5°	4092.6	4098.1	4271.8	4444.1	4593.6
25°	3742.4	3752.5	3946.4	4118.4	4300.2
27.5°	3418.5	3423.0	3623.5	3805.1	3999.1
30°	3197.4	3210.0	3406.6	3594.6	3796.6
32.5°	2976.3	2991.0	3183.5	3377.7	3583.8
35°	2644.7	2657.3	2835.8	3026.7	3241.3
37.5°	2302.7	2319.9	2478.4	2658.8	2869.9
40°	2081.7	2106.9	2247.0	2417.0	2624.0
42.5°	1868.9	1900.2	2030.0	2191.3	2378.2
45°	1585.8	1616.1	1722.7	1853.1	2022.3
47.5°	1342.0	1376.8	1458.7	1571.0	1715.4
50°	1203.5	1236.4	1312.0	1395.2	1531.5
52.5°	1081.6	1114.5	1181.9	1246.0	1362.1
55°	911.7	949.6	1004.7	1042.8	1128.6
57.5°	772.2	808.6	852.3	869.5	921.5
60°	679.3	719.7	759.3	757.4	785.1
62.5°	594.5	628.9	668.4	641.1	642.6
65°	457.1	495.0	539.8	471.7	428.7
67.5°	369.3	377.4	423.6	328.9	277.9
70°	328.0	328.0	340.9	254.7	211.8
72.5°	288.7	288.7	276.9	207.1	162.2
75°	229.9	229.9	209.2	143.6	98.1
77.5°	177.2	175.2	160.1	107.1	71.3
80°	142.0	142.0	129.1	84.6	56.8
82.5°	111.1	111.1	100.2	66.1	42.4
85°	64.6	64.6	59.4	38.4	23.2
87.5°	23.2	24.2	24.6	14.3	12.3
90°	2.5	7.4	19.9	10.0	10.0
92.5°	10.5	50.4	111.6	49.4	31.9
95°	24.9	97.9	326.2	168.1	114.5
97.5°	43.3	107.6	488.1	388.1	285.9
100°	57.3	115.7	537.9	545.1	423.3
102.5°	69.2	123.8	551.8	678.9	574.7
105°	89.6	135.9	550.3	835.4	779.4
107.5°	110.6	153.4	518.9	916.7	930.3
110°	124.5	163.5	493.0	937.6	996.1



TEST NUMBER: P519035

CATALOG NUMBER: SQ4-WB-025U-100D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	138.5	175.5	469.1	924.4	1014.0
115°	159.4	193.5	440.8	879.3	1003.5
117.5°	179.8	211.0	421.3	816.9	954.7
120°	191.7	221.0	413.4	775.0	908.9
122.5°	203.7	232.9	407.4	733.1	865.1
125°	221.6	248.4	400.9	677.6	799.3
127.5°	236.1	263.3	395.4	632.8	735.6
130°	244.0	273.2	393.4	604.8	699.7
132.5°	252.0	281.2	391.4	580.6	665.9
135°	264.0	290.7	388.5	547.0	620.0
137.5°	276.4	302.7	388.0	521.8	581.7
140°	286.4	310.7	386.0	501.8	557.8
142.5°	294.3	316.7	386.0	487.7	535.9
145°	306.3	325.8	383.5	466.5	503.0
147.5°	318.2	337.2	383.5	448.9	479.1
150°	326.2	343.3	383.5	438.8	463.2
152.5°	334.2	347.3	383.5	430.7	449.2
155°	346.1	355.9	383.5	421.1	433.3
157.5°	355.1	364.3	383.5	412.6	421.3
160°	361.1	368.4	383.5	408.5	413.4
162.5°	367.0	372.4	383.5	404.5	409.4
165°	373.5	378.4	383.5	398.5	403.4
167.5°	379.5	381.9	386.0	396.0	397.9
170°	383.5	385.9	386.0	395.9	395.9
172.5°	385.5	386.0	386.0	393.9	391.9
175°	388.5	388.5	386.0	390.9	390.9
177.5°	388.5	388.5	386.5	390.4	388.5
180°	388.5	388.5	388.5	388.5	388.5

(END OF REPORT)