

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: P519060

Luminaire Tested: **SQ4-WB-025U-125D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519060
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-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

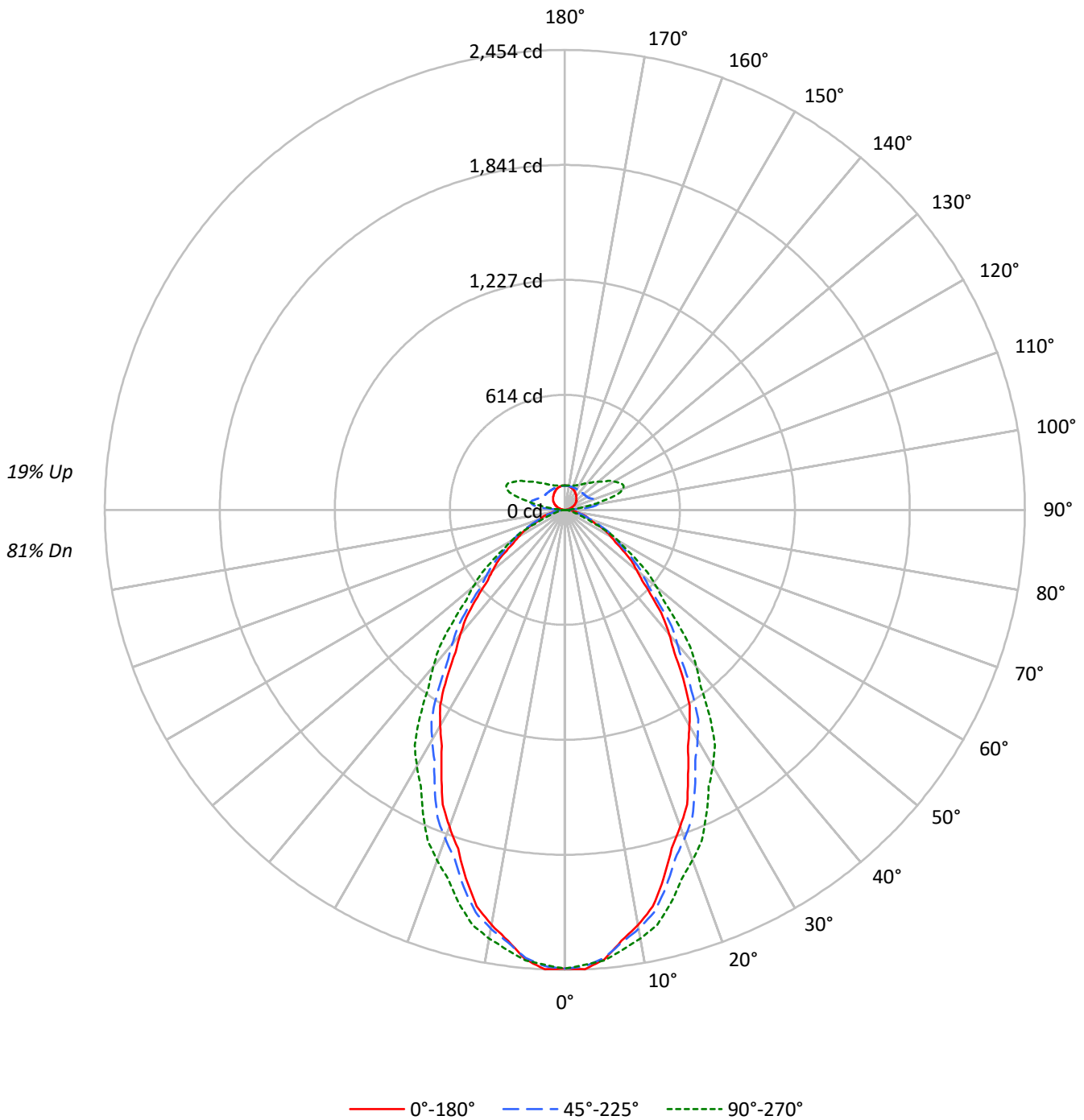
Lumens per Lamp: N/A
Luminaire Lumens: 4406.7 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 49.5
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: P519060
CATALOG NUMBER: SQ4-WB-025U-125D-935-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P519060

CATALOG NUMBER: SQ4-WB-025U-125D-935-1D-UNV-STD-W-4

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	115	115	115	115	110	110	110	110	101	101	101	92	92	92	85	85	85	81				
1	107	103	99	96	102	99	96	93	91	89	87	84	82	81	78	76	75	72				
2	99	92	87	82	94	89	84	79	82	78	75	76	73	70	71	68	66	63				
3	91	83	76	71	87	80	74	69	74	69	65	69	65	62	64	61	59	56				
4	85	75	67	62	81	72	66	61	68	62	58	63	59	55	59	55	52	50				
5	79	68	60	55	75	66	59	54	62	56	51	58	53	49	54	50	47	45				
6	73	62	54	49	70	60	53	48	57	51	46	53	48	44	50	46	43	40				
7	69	57	49	44	66	55	48	43	52	46	42	49	44	40	46	42	39	37				
8	64	52	45	40	62	51	44	39	48	42	38	46	40	37	43	39	35	34				
9	60	49	41	37	58	47	41	36	45	39	35	42	37	34	40	36	33	31				
10	57	45	38	34	55	44	37	33	42	36	32	40	35	31	38	33	30	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22583	22583	22583
5°	22302	22222	22351
10°	21070	21261	21755
15°	19451	19902	20795
20°	17663	18328	19540
25°	15843	16706	18205
30°	14165	15092	16820
35°	12387	13283	15182
40°	10426	11254	13142
45°	8605	9347	10973
50°	7184	7831	9142
55°	6098	6720	7550
60°	5213	5827	6025
65°	4150	4901	3892
70°	3679	3825	2377
75°	3408	3101	1454
80°	3140	2853	1254
85°	2848	2615	1027



TEST NUMBER: P519060

CATALOG NUMBER: SQ4-WB-025U-125D-935-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.5	5.1
10°-20°	584.0	13.3
20°-30°	756.4	17.2
30°-40°	740.7	16.8
40°-50°	567.0	12.9
50°-60°	377.8	8.6
60°-70°	206.2	4.7
70°-80°	85.9	1.9
80°-90°	25.0	0.6
90°-100°	63.1	1.4
100°-110°	165.9	3.8
110°-120°	172.0	3.9
120°-130°	138.0	3.1
130°-140°	108.3	2.5
140°-150°	83.1	1.9
150°-160°	59.9	1.4
160°-170°	36.6	0.8
170°-180°	12.4	0.3
0°-30°	1564.9	35.5
0°-40°	2305.6	52.3
0°-60°	3250.4	73.8
0°-90°	3567.5	81.0
90°-120°	401.1	9.1
90°-150°	730.4	16.6
90°-180°	839.0	19.0
0°-180°	4406.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2448	2448	2448	2448	2448	
5°	2408	2384	2399	2405	2413	224
15°	2036	2029	2084	2140	2177	569
25°	1556	1560	1641	1713	1788	716
35°	1100	1105	1179	1259	1348	684
45°	660	672	716	771	841	514
55°	379	395	418	434	469	344
65°	190	206	224	196	178	198
75°	96	96	87	60	41	102
85°	27	27	25	16	10	29
90°	1	2	7	3	3	2
95°	8	33	109	56	38	9
105°	30	45	183	278	260	32
115°	53	64	147	293	334	52
125°	74	83	134	226	266	66
135°	88	97	130	182	207	68
145°	102	109	128	156	168	64
155°	115	119	128	140	144	53
165°	124	126	128	133	134	35
175°	130	130	129	130	130	12
180°	130	130	130	130	130	

TEST NUMBER: P519060

CATALOG NUMBER: SQ4-WB-025U-125D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2447.7	2447.7	2447.7	2447.7	2447.7
2.5°	2453.7	2431.9	2437.4	2437.2	2430.5
5°	2408.0	2383.8	2399.4	2404.9	2413.3
7.5°	2318.6	2300.3	2328.7	2349.7	2366.7
10°	2249.0	2233.3	2269.4	2300.0	2322.1
12.5°	2168.2	2155.0	2199.8	2240.9	2269.6
15°	2036.4	2029.0	2083.6	2140.3	2177.1
17.5°	1895.2	1891.7	1954.3	2020.5	2067.5
20°	1799.0	1797.9	1866.7	1935.6	1990.2
22.5°	1701.9	1704.2	1776.4	1848.1	1910.3
25°	1556.3	1560.5	1641.1	1712.6	1788.3
27.5°	1421.6	1423.5	1506.9	1582.4	1663.0
30°	1329.6	1334.9	1416.6	1494.8	1578.8
32.5°	1237.7	1243.8	1323.8	1404.6	1490.3
35°	1099.8	1105.1	1179.3	1258.6	1347.9
37.5°	957.6	964.7	1030.6	1105.7	1193.5
40°	865.7	876.2	934.4	1005.1	1091.2
42.5°	777.2	790.2	844.2	911.3	989.0
45°	659.5	672.1	716.4	770.6	841.0
47.5°	558.1	572.6	606.6	653.3	713.4
50°	500.5	514.1	545.6	580.2	636.9
52.5°	449.8	463.5	491.5	518.1	566.4
55°	379.1	394.9	417.8	433.6	469.4
57.5°	321.1	336.3	354.4	361.6	383.2
60°	282.5	299.3	315.8	315.0	326.5
62.5°	247.2	261.5	278.0	266.6	267.2
65°	190.1	205.9	224.5	196.1	178.3
67.5°	153.6	156.9	176.1	136.8	115.6
70°	136.4	136.4	141.8	105.9	88.1
72.5°	120.1	120.1	115.1	86.1	67.4
75°	95.6	95.6	87.0	59.7	40.8
77.5°	73.7	72.8	66.6	44.6	29.6
80°	59.1	59.1	53.7	35.2	23.6
82.5°	46.2	46.2	41.7	27.5	17.6
85°	26.9	26.9	24.7	16.0	9.7
87.5°	9.6	9.9	9.9	5.8	5.0
90°	0.8	2.5	6.6	3.3	3.3
92.5°	3.5	16.8	37.2	16.5	10.6
95°	8.3	32.6	108.7	56.0	38.2
97.5°	14.4	35.9	162.7	129.4	95.3
100°	19.1	38.6	179.3	181.7	141.1
102.5°	23.1	41.3	183.9	226.3	191.6
105°	29.9	45.3	183.4	278.5	259.8
107.5°	36.9	51.1	173.0	305.6	310.1
110°	41.5	54.5	164.3	312.5	332.0

TEST NUMBER: P519060

CATALOG NUMBER: SQ4-WB-025U-125D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.2	58.5	156.4	308.1	338.0
115°	53.1	64.5	146.9	293.1	334.5
117.5°	59.9	70.3	140.4	272.3	318.2
120°	63.9	73.7	137.8	258.3	303.0
122.5°	67.9	77.6	135.8	244.4	288.4
125°	73.9	82.8	133.6	225.9	266.4
127.5°	78.7	87.8	131.8	210.9	245.2
130°	81.3	91.1	131.1	201.6	233.2
132.5°	84.0	93.7	130.5	193.5	222.0
135°	88.0	96.9	129.5	182.3	206.7
137.5°	92.1	100.9	129.3	173.9	193.9
140°	95.5	103.6	128.7	167.3	185.9
142.5°	98.1	105.6	128.7	162.6	178.6
145°	102.1	108.6	127.8	155.5	167.7
147.5°	106.1	112.4	127.8	149.6	159.7
150°	108.7	114.4	127.8	146.3	154.4
152.5°	111.4	115.8	127.8	143.6	149.7
155°	115.4	118.6	127.8	140.4	144.4
157.5°	118.4	121.4	127.8	137.5	140.4
160°	120.4	122.8	127.8	136.2	137.8
162.5°	122.3	124.1	127.8	134.8	136.5
165°	124.5	126.1	127.8	132.8	134.5
167.5°	126.5	127.3	128.7	132.0	132.6
170°	127.8	128.6	128.7	132.0	132.0
172.5°	128.5	128.7	128.7	131.3	130.6
175°	129.5	129.5	128.7	130.3	130.3
177.5°	129.5	129.5	128.8	130.1	129.5
180°	129.5	129.5	129.5	129.5	129.5

(END OF REPORT)