

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: P519053

Luminaire Tested: **SQ4-WB-025U-125D-840-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519053  
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-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

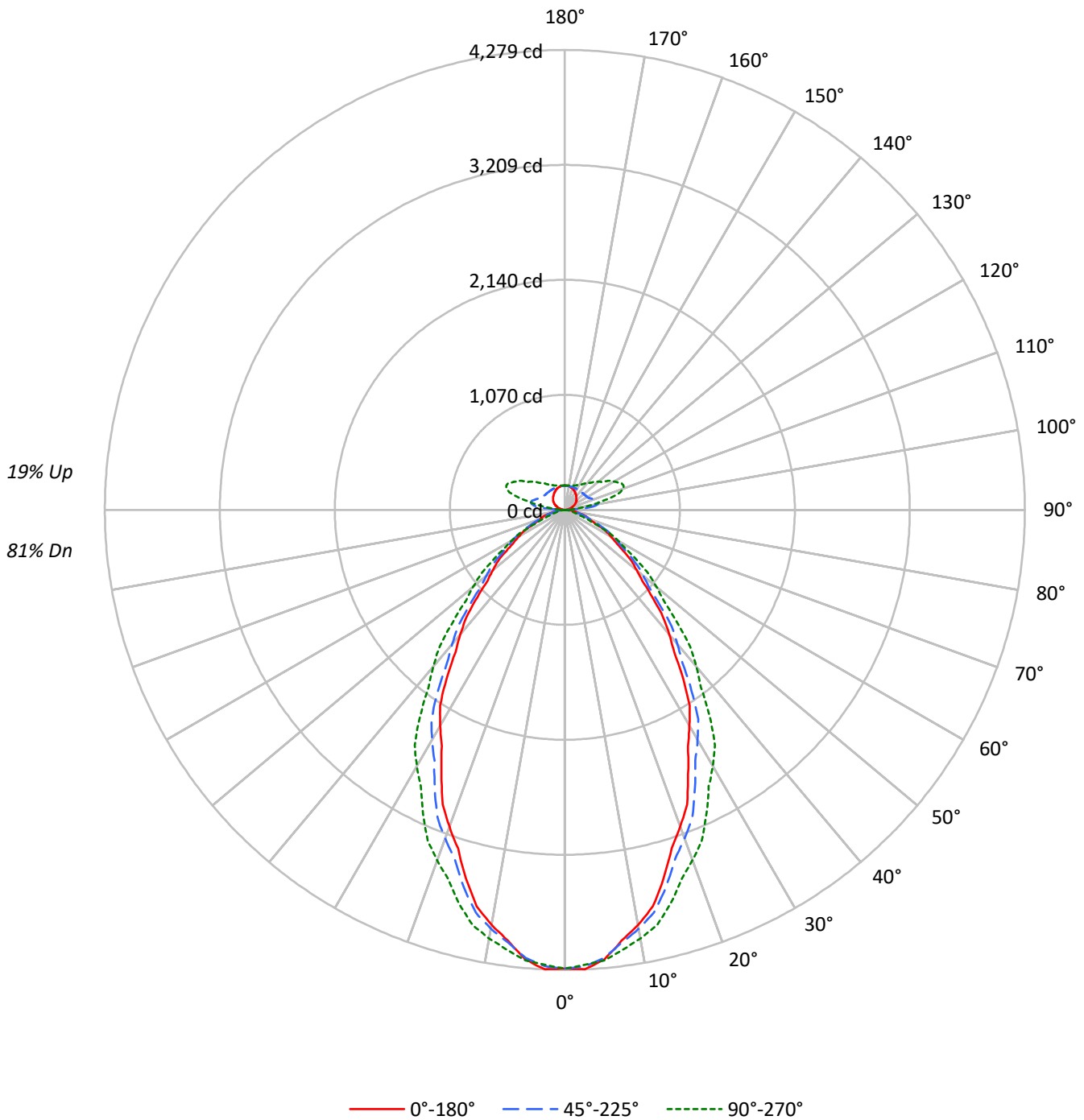
Lumens per Lamp: N/A  
Luminaire Lumens: 7684.0 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 77.9  
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: P519053  
CATALOG NUMBER: SQ4-WB-025U-125D-840-1D-UNV-STD-W-6

### Luminous Intensity Polar Plot





TEST NUMBER: P519053

CATALOG NUMBER: SQ4-WB-025U-125D-840-1D-UNV-STD-W-6

**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	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°	26252	26252	26252
5°	25925	25832	25983
10°	24493	24715	25289
15°	22611	23135	24173
20°	20533	21305	22715
25°	18417	19421	21162
30°	16467	17544	19553
35°	14400	15440	17649
40°	12120	13082	15278
45°	10002	10866	12756
50°	8351	9104	10627
55°	7089	7812	8776
60°	6059	6773	7003
65°	4825	5696	4525
70°	4277	4446	2762
75°	3962	3605	1692
80°	3648	3315	1459
85°	3303	3042	1193



TEST NUMBER: P519053

CATALOG NUMBER: SQ4-WB-025U-125D-840-1D-UNV-STD-W-6

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.5	5.1
10°-20°	1018.3	13.3
20°-30°	1318.9	17.2
30°-40°	1291.6	16.8
40°-50°	988.6	12.9
50°-60°	658.8	8.6
60°-70°	359.5	4.7
70°-80°	149.8	1.9
80°-90°	43.6	0.6
90°-100°	110.0	1.4
100°-110°	289.3	3.8
110°-120°	300.0	3.9
120°-130°	240.6	3.1
130°-140°	188.8	2.5
140°-150°	144.9	1.9
150°-160°	104.4	1.4
160°-170°	63.9	0.8
170°-180°	21.6	0.3
0°-30°	2728.7	35.5
0°-40°	4020.3	52.3
0°-60°	5667.7	73.8
0°-90°	6220.6	81.0
90°-120°	699.3	9.1
90°-150°	1273.6	16.6
90°-180°	1463.0	19.0
0°-180°	7684.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4268	4268	4268	4268	4268	
5°	4199	4157	4184	4194	4208	391
15°	3551	3538	3633	3732	3796	992
25°	2714	2721	2862	2986	3118	1248
35°	1918	1927	2056	2195	2350	1192
45°	1150	1172	1249	1344	1466	897
55°	661	689	728	756	818	599
65°	332	359	391	342	311	345
75°	167	167	152	104	71	178
85°	47	47	43	28	17	51
90°	1	4	12	6	6	4
95°	14	57	190	98	67	16
105°	52	79	320	486	453	55
115°	93	112	256	511	583	91
125°	129	144	233	394	465	114
135°	153	169	226	318	360	119
145°	178	189	223	271	292	112
155°	201	207	223	245	252	92
165°	217	220	223	232	234	61
175°	226	226	224	227	227	21
180°	226	226	226	226	226	

TEST NUMBER: P519053

CATALOG NUMBER: SQ4-WB-025U-125D-840-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4268.1	4268.1	4268.1	4268.1	4268.1
2.5°	4278.6	4240.5	4250.1	4249.8	4238.1
5°	4198.8	4156.7	4183.8	4193.5	4208.2
7.5°	4043.0	4011.1	4060.6	4097.2	4126.9
10°	3921.6	3894.2	3957.2	4010.5	4049.0
12.5°	3780.8	3757.7	3835.9	3907.4	3957.6
15°	3550.8	3538.0	3633.2	3732.1	3796.1
17.5°	3304.7	3298.5	3407.7	3523.1	3605.1
20°	3136.9	3135.1	3254.9	3375.1	3470.3
22.5°	2967.6	2971.7	3097.6	3222.5	3330.9
25°	2713.7	2721.0	2861.6	2986.4	3118.2
27.5°	2478.8	2482.1	2627.5	2759.2	2899.8
30°	2318.5	2327.7	2470.2	2606.5	2753.0
32.5°	2158.2	2168.8	2308.4	2449.3	2598.7
35°	1917.7	1926.9	2056.3	2194.7	2350.4
37.5°	1669.8	1682.2	1797.1	1928.0	2081.0
40°	1509.5	1527.8	1629.3	1752.6	1902.8
42.5°	1355.2	1377.9	1472.0	1589.0	1724.5
45°	1149.9	1171.9	1249.2	1343.7	1466.4
47.5°	973.1	998.4	1057.8	1139.2	1243.9
50°	872.7	896.5	951.4	1011.7	1110.6
52.5°	784.3	808.1	857.0	903.5	987.7
55°	661.1	688.6	728.5	756.1	818.4
57.5°	560.0	586.3	618.0	630.5	668.2
60°	492.5	521.8	550.6	549.2	569.3
62.5°	431.1	456.0	484.7	464.9	466.0
65°	331.5	359.0	391.4	342.0	310.9
67.5°	267.8	273.7	307.1	238.5	201.5
70°	237.8	237.8	247.2	184.7	153.6
72.5°	209.4	209.4	200.8	150.2	117.6
75°	166.7	166.7	151.7	104.1	71.2
77.5°	128.5	127.0	116.1	77.7	51.7
80°	103.0	103.0	93.6	61.3	41.2
82.5°	80.5	80.5	72.7	47.9	30.7
85°	46.8	46.8	43.1	27.8	16.9
87.5°	16.8	17.3	17.3	10.1	8.6
90°	1.4	4.3	11.6	5.8	5.8
92.5°	6.1	29.3	64.8	28.7	18.5
95°	14.5	56.9	189.6	97.7	66.6
97.5°	25.2	62.5	283.7	225.6	166.2
100°	33.3	67.3	312.6	316.8	246.0
102.5°	40.2	71.9	320.7	394.6	334.0
105°	52.1	79.0	319.9	485.6	453.0
107.5°	64.3	89.2	301.6	532.8	540.7
110°	72.4	95.0	286.6	545.0	578.9



TEST NUMBER: P519053

CATALOG NUMBER: SQ4-WB-025U-125D-840-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	80.5	102.0	272.7	537.3	589.4
115°	92.6	112.4	256.2	511.1	583.3
117.5°	104.5	122.6	244.9	474.8	554.9
120°	111.4	128.4	240.3	450.4	528.3
122.5°	118.4	135.4	236.8	426.1	502.8
125°	128.8	144.4	233.0	393.8	464.6
127.5°	137.2	153.1	229.8	367.8	427.5
130°	141.8	158.8	228.7	351.5	406.7
132.5°	146.5	163.5	227.5	337.5	387.0
135°	153.4	169.0	225.8	317.9	360.4
137.5°	160.7	175.9	225.5	303.3	338.1
140°	166.4	180.6	224.3	291.7	324.2
142.5°	171.1	184.1	224.3	283.4	311.5
145°	178.0	189.3	222.9	271.1	292.4
147.5°	185.0	196.0	222.9	260.9	278.5
150°	189.6	199.5	222.9	255.1	269.2
152.5°	194.2	201.9	222.9	250.3	261.1
155°	201.2	206.8	222.9	244.8	251.8
157.5°	206.4	211.8	222.9	239.8	244.9
160°	209.9	214.1	222.9	237.4	240.3
162.5°	213.3	216.5	222.9	235.1	237.9
165°	217.1	219.9	222.9	231.6	234.5
167.5°	220.6	222.0	224.3	230.2	231.3
170°	222.9	224.3	224.3	230.1	230.1
172.5°	224.0	224.3	224.3	228.9	227.8
175°	225.8	225.8	224.3	227.2	227.2
177.5°	225.8	225.8	224.6	226.9	225.8
180°	225.8	225.8	225.8	225.8	225.8

(END OF REPORT)