

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: P519047

Luminaire Tested: **SQ4-WB-025U-125D-835-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519047
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-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

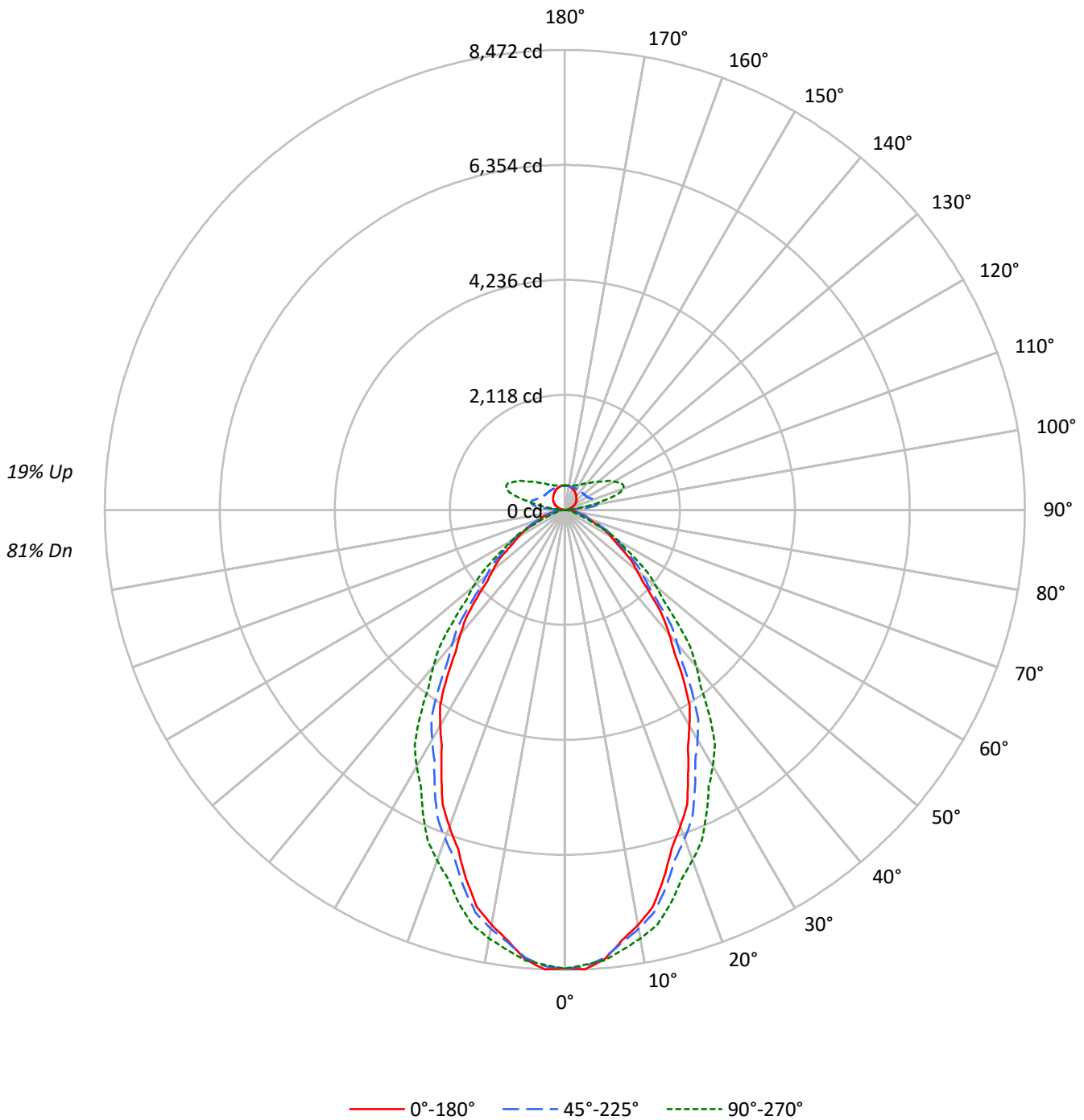
Lumens per Lamp: N/A
Luminaire Lumens: 15215.0 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 156.2
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



TEST NUMBER: P519047
CATALOG NUMBER: SQ4-WB-025U-125D-835-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P519047

CATALOG NUMBER: SQ4-WB-025U-125D-835-1D-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	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°	25991	25991	25991
5°	25666	25575	25724
10°	24249	24469	25037
15°	22386	22905	23932
20°	20328	21093	22489
25°	18233	19227	20951
30°	16303	17369	19358
35°	14256	15287	17472
40°	11999	12952	15126
45°	9903	10757	12629
50°	8268	9013	10521
55°	7019	7734	8689
60°	5999	6706	6934
65°	4777	5640	4480
70°	4234	4402	2734
75°	3921	3569	1674
80°	3613	3284	1445
85°	3271	3010	1179



TEST NUMBER: P519047

CATALOG NUMBER: SQ4-WB-025U-125D-835-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	775.2	5.1
10°-20°	2016.2	13.3
20°-30°	2611.6	17.2
30°-40°	2557.4	16.8
40°-50°	1957.6	12.9
50°-60°	1304.4	8.6
60°-70°	711.8	4.7
70°-80°	296.6	1.9
80°-90°	86.4	0.6
90°-100°	217.9	1.4
100°-110°	572.8	3.8
110°-120°	594.0	3.9
120°-130°	476.5	3.1
130°-140°	373.8	2.5
140°-150°	286.9	1.9
150°-160°	206.7	1.4
160°-170°	126.4	0.8
170°-180°	42.7	0.3
0°-30°	5403.0	35.5
0°-40°	7960.5	52.3
0°-60°	11222.5	73.8
0°-90°	12317.3	81.0
90°-120°	1384.7	9.1
90°-150°	2521.9	16.6
90°-180°	2898.0	19.0
0°-180°	15215.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8451	8451	8451	8451	8451	
5°	8314	8230	8284	8304	8332	773
15°	7031	7006	7194	7390	7517	1963
25°	5373	5388	5666	5913	6174	2471
35°	3797	3815	4072	4346	4654	2361
45°	2277	2320	2473	2661	2904	1776
55°	1309	1363	1442	1497	1620	1187
65°	656	711	775	677	616	682
75°	330	330	300	206	141	352
85°	93	93	85	55	33	101
90°	3	8	23	12	12	7
95°	29	113	375	194	132	32
105°	103	156	633	962	897	109
115°	183	223	507	1012	1155	181
125°	255	286	461	780	920	226
135°	304	335	447	630	714	235
145°	352	375	441	537	579	221
155°	398	410	441	485	499	183
165°	430	436	441	459	464	121
175°	447	447	444	450	450	42
180°	447	447	447	447	447	

TEST NUMBER: P519047

CATALOG NUMBER: SQ4-WB-025U-125D-835-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8451.1	8451.1	8451.1	8451.1	8451.1
2.5°	8471.9	8396.5	8415.5	8415.0	8391.8
5°	8313.9	8230.5	8284.3	8303.5	8332.5
7.5°	8005.4	7942.3	8040.3	8112.8	8171.5
10°	7765.1	7710.7	7835.6	7941.1	8017.3
12.5°	7486.2	7440.6	7595.3	7737.0	7836.3
15°	7030.9	7005.5	7194.0	7389.8	7516.7
17.5°	6543.6	6531.3	6747.6	6976.0	7138.4
20°	6211.3	6207.7	6445.0	6682.9	6871.4
22.5°	5876.1	5884.1	6133.5	6380.9	6595.5
25°	5373.3	5387.8	5666.2	5913.2	6174.3
27.5°	4908.3	4914.8	5202.7	5463.4	5741.9
30°	4590.8	4609.0	4891.2	5161.1	5451.2
32.5°	4273.4	4294.4	4570.8	4849.7	5145.6
35°	3797.3	3815.4	4071.7	4345.7	4653.9
37.5°	3306.3	3330.9	3558.5	3817.5	4120.6
40°	2988.9	3025.1	3226.2	3470.3	3767.6
42.5°	2683.3	2728.3	2914.7	3146.3	3414.6
45°	2276.9	2320.4	2473.4	2660.6	2903.6
47.5°	1926.8	1976.9	2094.4	2255.6	2463.0
50°	1728.1	1775.2	1883.8	2003.2	2199.0
52.5°	1553.0	1600.2	1696.9	1789.0	1955.7
55°	1309.0	1363.4	1442.5	1497.2	1620.5
57.5°	1108.8	1161.0	1223.7	1248.4	1323.1
60°	975.3	1033.3	1090.2	1087.4	1127.3
62.5°	853.6	903.0	959.7	920.4	922.6
65°	656.4	710.8	775.0	677.2	615.6
67.5°	530.3	541.9	608.2	472.3	399.0
70°	470.9	470.9	489.5	365.7	304.1
72.5°	414.6	414.6	397.5	297.4	232.9
75°	330.0	330.0	300.4	206.2	140.9
77.5°	254.4	251.5	229.9	153.8	102.3
80°	204.0	204.0	185.4	121.5	81.6
82.5°	159.5	159.5	143.9	94.9	60.8
85°	92.7	92.7	85.3	55.1	33.4
87.5°	33.2	34.3	34.3	20.0	17.1
90°	2.9	8.5	22.9	11.5	11.5
92.5°	12.0	58.0	128.4	56.9	36.7
95°	28.7	112.7	375.4	193.5	131.8
97.5°	49.9	123.8	561.7	446.7	329.0
100°	65.9	133.2	619.0	627.3	487.2
102.5°	79.7	142.4	635.1	781.4	661.4
105°	103.2	156.4	633.4	961.5	897.0
107.5°	127.2	176.6	597.2	1055.0	1070.7
110°	143.3	188.1	567.4	1079.1	1146.3

TEST NUMBER: P519047

CATALOG NUMBER: SQ4-WB-025U-125D-835-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	159.3	201.9	539.9	1063.9	1167.0
115°	183.4	222.6	507.3	1012.0	1154.9
117.5°	206.9	242.8	484.9	940.2	1098.8
120°	220.7	254.3	475.7	891.9	1046.0
122.5°	234.4	268.1	468.9	843.7	995.6
125°	255.1	285.9	461.4	779.8	919.9
127.5°	271.7	303.1	455.1	728.3	846.6
130°	280.9	314.5	452.8	696.0	805.3
132.5°	290.0	323.7	450.5	668.3	766.3
135°	303.8	334.6	447.1	629.5	713.6
137.5°	318.1	348.4	446.5	600.5	669.5
140°	329.6	357.6	444.2	577.5	642.0
142.5°	338.7	364.5	444.2	561.3	616.7
145°	352.5	374.9	441.3	536.9	578.9
147.5°	366.3	388.1	441.3	516.6	551.4
150°	375.4	395.0	441.3	505.0	533.1
152.5°	384.6	399.7	441.3	495.7	517.0
155°	398.4	409.6	441.3	484.6	498.7
157.5°	408.7	419.3	441.3	474.8	484.9
160°	415.5	424.0	441.3	470.1	475.7
162.5°	422.4	428.6	441.3	465.5	471.1
165°	429.9	435.5	441.3	458.7	464.3
167.5°	436.8	439.6	444.2	455.7	458.0
170°	441.3	444.1	444.2	455.7	455.7
172.5°	443.6	444.2	444.2	453.3	451.1
175°	447.1	447.1	444.2	449.9	449.9
177.5°	447.1	447.1	444.8	449.3	447.1
180°	447.1	447.1	447.1	447.1	447.1

(END OF REPORT)